

Some account of the baggage
corps of Scinde,

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SOME ACCOUNT

OF

THE BAGGAGE CORPS

OF

Brinde.

Established 1845, and Disbanded 1851.

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1852.

THE
SCINDE BAGGAGE CORPS.

The Scinde Baggage Corps has at last been disbanded, and while the matter is still fresh in our recollection, it may be useful to record the facts and circumstances relative to this curious experiment.

The following observations on the subject are offered in the hope of laying the truth of the matter before the public while the subject is still remembered, and thereby saving the state from a repetition of the costly folly of bringing gentlemen from Europe to teach our old Indian Commissaries how to load a camel, and how to carry their kit.

The Scinde Baggage Corps was first proposed about the month of August, 1843, in consequence of an alarm at the number of camels said to be required to move the troops even in Scinde—where abundant supplies existed in every part of the province—where the inhabitants were always willing to sell those supplies—and where the enemy never attempted to prevent provisions reaching the army.

The first move in the matter was to assemble a special committee of three officers, supposed to be best acquainted with the subject in hand. Before this committee the ideas of the Governor of Scinde were laid, and it was directed to devise the best means for carrying them into practical effect.

The committee sat long, and evidently labored much, for hundreds of returns of all kinds were called for from every department, regiment, and even company, in the army; there was nothing going on throughout the camp but weighing and measuring

every article of kit carried by officers and men, or for their use, public or private ; nothing escaped, from a tent to a tooth-brush.

The labors of the committee were at last brought to a close, but the result never transpired, the proceedings were locked up, and nothing was heard of them afterwards. Their nature or general tendency may, however, be shrewdly guessed at, *for the Baggage Corps was not mentioned again for nearly two years.*

During the *hill campaign* of 1845 the commissariat arrangements proved a failure, owing to a series of errors ; operations were in consequence suspended ere they were well begun, and remained so for a month and more. (It appeared that it had even been forgotten that money was necessary to carry on war, and a day or two after the commencement of the “ campaign ” the discovery was suddenly made that both the military treasure chest and the collector’s treasury were empty).

This failure was ascribed to the want of a baggage corps, and with a view to the prevention of such failures in future campaigns, the embodying of a baggage corps was ordered by the Government of India.

The existence of the Baggage Corps now commenced in good earnest ; a committee was assembled to arrange the details, and the strength of the new corps was fixed at 1,800 camels and 1,800 private soldiers with a due proportion of officers, European and Native, &c., &c.

Some years afterwards the establishment of the corps was altered, its numbers reduced to 1,000 privates and 1,000 camels, and the whole arranged as appears in the Bombay code of regulations, from which the following numbers of men, &c., are taken.

ESTABLISHMENT OF THE SCINDE CAMEL BAGGAGE CORPS.

	TOTAL OF EACH.				TOTAL.		
	Rs.	a.	p.	..	Rs.	a.	p.
1 Commandant	850	0	0	..	850	0	0
3 Division Commanders	130	0	0	..	390	0	0
5 Sergeants	50	0	0	..	250	0	0
6 Soobadars	40	0	0	..	240	0	0
Carried over					1,730	0	0

	Rs.	a.	p.		Rs.	a.	p.
Brought forward.....	1730	0	0				
13 Jemadars	30	0	0	..	390	0	0
19 Havildars	20	0	0	..	380	0	0
60 Naiques	15	0	0	..	900	0	0
1,000 Privates	8	0	0	..	8,000	0	0
3 Nuggarchees	10	0	0	..	30	0	0

STAFF.

1 Native Adjutant.....	17	8	0	..	17	8	0
1 Havildar Major	10	0	0	..	10	0	0
9 Pay Orderlies	5	0	0	..	45	0	0
1 Quarter-Master Havildar	14	0	0	..	14	0	0
1 Moonshee	30	0	0	..	30	0	0
Office Allowance.....	167	0	0	..	167	0	0
Stationery	60	0	0	..	60	0	0
Office tentage	30	0	0	..	30	0	0

MEDICAL.

1 Assistant-Surgeon	450	0	0	..	450	0	0
1 First Hospital Assistant.....	30	0	0	..	30	0	0
1 Second Hospital Assistant	25	0	0	..	25	0	0
3 Camel Doctors	20	0	0	..	60	0	0

ARTIFICERS.

3 Armourers	15	0	0	..	45	0	0
3 Bellows Boys	5	0	0	..	15	0	0
3 Mochees	15	0	0	..	45	0	0
10 Puckalees	12	0	0	..	120	0	0
Allowance for Steel and Charcoal					21	0	0
Cost of 1,000 Camels at 80 rupees each.....	80,000						
Five per Cent. per annum on capital, per mensem					333	5	4
Loss by death, &c., of Camels, which last in work in the corps on the average about three years, per mensem					2,222	3	6
Grain for 1,000 Camels, 6 lbs. each a day, at 80 lbs. per rupee, per mensem.....					2,250	0	0
Mussalas, Country Medicines, &c. at 4 annas per camel					250	0	0
Cost, wear and tear of Camels' Saddles, Ropes, &c. at 1 rupee each per mensem					1,000	0	0
Cost of 1,079 Muskets or Fuzils, with 1,079 Bayonets, Belts, or Pouches, at per set 39 1 5 ..	42,199	0	1				
Five per Cent. per annum on capital					175	13	3
Cost of Tent and Ammunition, Interest on Capital, and wear and tear, per mensem					230	0	0
Total	19,075	14	1				
Cost of each Camel.....	19	1	2				

Jameson's Code, p. 119, art 94.

About three hundred camels are required to move a regiment of native infantry, inclusive of tents, ammunition and the private baggage of officers and men, but without any commissariat stores, and supposing but one-half of the European officers to be present, according to the scale laid down in the Bombay regulations, p. 113, art. 90, and according to the weights ordered by Sir C. Napier to be carried by the camels of the Baggage Corps, 200 of these camels would be employed in the carriage of the private baggage of the officers and men. When the camels of the Baggage Corps are thus employed they are paid for by the men using them, at the rate of ten rupees each camel per mensem.

The camels only attached to regiments, and paid for during actual service, which for the period of the existence of the late Scinde Baggage Corps may have amounted on the average to one-fourth of the whole time.

The Baggage Corps existed from the middle of the year 1845 till the end of 1851, or six and-a-half years. Its total cost during that period amounted to 1,487,855 rupees per thousand camels.

The total amount received during that period as the hire of 1,000 camels from officers and men amounts to 195,000 rupees.

The total loss to the State therefore on 1,000 camels of the Scinde Baggage Corps, employed in carrying the private baggage of the troops, amounts to 1,292,855 rupees, or nearly thirteen lacs of rupees in the excess of the cost of moving the troops under the old system on this one item alone.

Again, as respects the camels of the Baggage Corps employed in carrying the tents, ammunition and the public stores belonging to the troops ;

The cost of 1,000 camels on the Baggage Corps system being as before 1,487,855 rupees.

The cost of hiring 1,000 camels by the commissariat department, when required for the movement of troops under the arrangement heretofore adopted in India, would amount during the same period to 12,000 rupees per mensem, according to the usual rate of 12 rupees per camel. This is the Bombay rate. That of Bengal, on service, is about 8 rupees. But these camels

were accustomed to carry about double the loads allotted to those of the Baggage Corps. Their cost must, therefore, be reduced by one-half when compared to the others ; they were also only engaged when required. Assuming this period to have been three months in the year, as before, and the total cost on the commissariat contract system of 1,000 camels during six and-a-half years employed in carrying the public stores of the regiments, amounts to 117,000 rupees. Total loss to the State on 1,000 camels so employed amounts to 1,370,855 rupees.

The men of the Baggage Corps were supposed to be soldiers as well as camel men ; so that on the line of march, in camp and while out grazing, no other baggage guard would ever be required. This was generally, though not always, the case on ordinary marches, through a friendly country, where a guard was only required as a matter of form, but when treasure or other valuables had to be transported, and whatever the nature of the loads in the field in an enemy's country, it was always found necessary to employ the soldiers of the line in guarding the camels, &c., as usual. Thus no real advantage was in practice gained by the camel men being considered as sepoys.

On the other hand, the attempt to make them soldiers seems to have spoiled them as camel men ; for while the common camels of the country could, without ever being fed on grain, with ease carry a load of 400 lb on the average, and the best of them very much more than this, the camels of the Baggage Corps could with difficulty carry the smallest weight allotted to them by the orders of the Governor of Scinde, namely 240 lb. They also, from the ignorance and bad management of the sepoy camel men, became so sickly, and died so fast, that anywhere, but in a country abounding in camels, the corps could not have existed for six months. But in such a country the facilities of hiring camels in any numbers when required is so great, that a Baggage Corps becomes there more than usually unnecessary.

The Baggage Corps, as has been shown, is exceedingly advantageous to the private convenience and comfort of the officers and men ; the boon granted by its use is about equal to the grant of double batta to the troops while in the field, but the amount paid by

the state for this boon, is, as shown by the figures set forth before, something more than seven times the amount by which the troops benefit by the arrangement. Moreover, as respects the facility of moving troops, the Scinde Baggage Corps could only be of use in a friendly country abounding in supplies, inasmuch, as under any other circumstances, as large a commissariat establishment of cattle, &c., &c., must be entertained, as if the Baggage Corps did not exist, for the purpose of carrying food, &c., for man and beast; nay, a *larger* commissariat establishment must be maintained by reason of the Baggage Corps, because the sepoy camel men, &c., of that corps must be fed and provided for like the real soldiers of the army. Extra carriage must also be provided for the conveyance of the tents, ammunition, and the officers' and men's baggage of the Baggage Corps itself, or, which amounts to the same thing, these must be carried on the camels of the Baggage Corps, and the amount of available carriage for the rest of the army be lessened by so much.

Again, the Baggage Corps is evidently useless, even in a friendly country, for the transport of battering trains or other heavy stores; for this, recourse must be had to the old commissariat arrangements, or to something equivalent to them.

It appears, then, that a corps on the model of the late Scinde Camel Baggage Corps could only be maintained in a country abounding in camels, in which these animals could be readily purchased or hired as wanted, or evidently under circumstances wherein such a corps must be very little required for the convenience of the troops, who could easily provide themselves with carriage without it.

Secondly:—That such a corps could only be maintained at a cost out of all reasonable proportion, greater than the value of the benefits accruing from it.

Thirdly:—That under those circumstances wherein alone it becomes a matter of any real difficulty to move troops in India and the countries bordering on it, namely, when it becomes necessary to carry all the supplies for the use of the troops with the moving army itself, such a Baggage Corps becomes entirely useless, being unable to carry a month's supply of food even for

itself. Under the old commissariat arrangements there was never more than one driver to five camels, each camel carrying about 5 cwt. The Camel Corps had more than a man to each camel, and that camel carried 240 lb.

Fourthly :—When the army is serving in an enemy's country, and it consequently becomes of the greatest advantage to reduce the "impedimenta" as much as possible, a Baggage Corps on the model of that lately disbanded, &c., tends only to increase, instead of to diminish, the necessary train. An officer even of ability, and though experienced in the armies of Europe, may well be excused for at first sight becoming alarmed at the train found necessary for moving troops in time of war in the East, and being dismayed at all the danger and disorder which apparently must accompany such a crowd of animals and followers; but it is soon perceived that the greatest evil in the matter exists in imagination and inexperience, and that the real difficulties have long ago been mastered, and the whole affair reduced to systematic rule by those to whom the subject is familiar.

The arrangements for supplying armies in the field in India, and conducting the enormous trains of beasts of burden which accompany them, have been brought to the greatest perfection by the commissariat department of Bengal. The details of the arrangements are well known to most old Indian officers who have served much in an enemy's country; the general results are familiar to all officers of local experience in India; and when these arrangements are properly understood by a General, they enable him to reduce to sufficient form, order and regularity, that which at first appears an interminable, incongruous and riotous mass of confusion. It is not, perhaps, necessary here to enter into the details of the gigantic arrangements of the Indian Commissariat Department. But it has been acknowledged as an axiom by the greatest Generals who ever led armies in India, that the safety of an army or the success of a campaign depends at least as much on the state of the "bazaar" of the army as on the goodness of the troops. The remarks of the Duke of Wellington on Colonel Monson's disastrous retreat are very instructive on this point. The Duke shows clearly that the whole of that

serious misfortune was caused by the inefficiency of the Colonel's bazaar and commissariat arrangements ; and states, that he himself made it a point always to have in his camp a month's provisions for his whole force. The multitude of traders of all sorts and the immense train of baggage animals which this implies, and which the Duke justly considered as essentially necessary to his safety and success, might have been considered by an inexperienced officer as ruinous to the army ; but few would probably have had the boldness to propose as a remedy for the apparent evil an arrangement by which the number of men to be fed would be greatly multiplied and the means of transport greatly diminished. Yet such was the scheme not only proposed, but attempted to be carried into effect, under the title of the Scinde Camel Baggage Corps, to the amazement of all Indian officers of experience, and to the great delight of thoughtless young subalterns.

The proposing of such a scheme was merely ridiculous, but the practical experiment to test its merits was a more serious matter ; for this experiment has cost the revenue of India more than £150,000 sterling, a sum sufficient to have made excellent roads all over the province of Scinde ; and, together with the large sums as foolishly wasted in making dams about Sukkur and Shikarpoor (which it was found necessary to destroy as soon as completed), would have sufficed probably for the construction of a railway from Kurrachee to the frontier desert.

The experiment of the Camel Baggage Corps, notwithstanding the enormous outlay lavished on it, and quite irrespective of the inadequacy of the return to the amount of capital expended, proved a complete failure. It was at once discovered that it was impossible to carry into full effect the original scheme, and, to move troops on real service, as many extra camels had to be provided as if the Camel Corps had not existed. The attempt to transport the stores and provisions of an army by any such arrangement as that of the Baggage Corps was at once, in effect, abandoned, and the Baggage Corps camels were employed solely in conveyance of the tents, muskets and ammunition in charge of regiments, and of the private baggage of the officers and men. For the carriage of the latter it had been hitherto the custom for the officers

and men to make their own arrangements, and to supply themselves as they could, so that the Baggage Corps relieved them of considerable trouble and expense, and the scheme was in consequence considered by the parties who profited by it as excellent and praiseworthy.

This circumstance may go far to account for the astonishing fact of such a Baggage Corps having been continued in existence for six and-a-half years !

Having discussed the merits of this method of transporting the private baggage and tents of an army, let us now see if our Indian experience will enable us to propose a better plan.

First, let us observe that for the transport of provisions and stores, park guns, ammunition (other than that in regimental charge), in short, for the carriage of at least nineteen-twentieths of the whole train accompanying an Indian army *in the field*, *nothing can be imagined more perfect than the system of the Bengal commissariat* as it appeared with the first army of Affghanistan in 1839.

But still, however small a proportion it may be, as to the general train following an army in the field, the carriage of the regimental baggage, public and private, is, for many reasons, a matter of great importance.

Under the present system the march of regiments is sometimes considerably delayed for want of such carriage ; while our officers and sepoy, having every thing done and provided for them by others, become helpless and unable to shift for themselves.

This is almost always the case with our regular army. But let us take a hint from the despised irregular, who marches at once when ordered, without troubling collector or commissary.

The scheme then proposed in place of the awfully expensive Baggage Corps is as follows:—

Let the plan of paying *batta* in the field be wholly abolished. Let officers and soldiers of the native army receive one rate of pay under all circumstances. Let there be no allowances. Let this rate of pay be sufficient fairly to meet actual wants, which can easily be calculated, and then insist on every officer and man

being at all times, and in all places, provided with a proper description of carriage to enable all to move any where at once at a moments warning.

Let the quarter-master of each regiment have a contract for the carriage of tents, ammunition, &c., and hold commanding-officers strictly responsible that every thing is always kept in an efficient state for immediate service.

This is no fanciful scheme ; it is done to our hand ; in all good Silidar Corps it has been long proved on a large scale, and with admirable success.

The indirect benefits of such a system would be nearly as great as those more directly accruing from it.

The sepoy, instead of being pipe-clayed automatons, would become comparatively clever and sensible men, able to provide themselves with whatever might be necessary, without giving the slightest annoyance to the people of the country, with whom they would necessarily take care to be on the best terms.

There would also be in this system the best possible check on men carrying too much baggage. A sepoy, who had to keep himself provided with proper carriage at his own expense, would very soon discover what articles were necessary to be carried ; and would assuredly carry none which were useless or superfluous.

The men might be a little awkward at first, from not being accustomed to such work, but would very soon master every difficulty.

If more leisure time were required for the proper performance of their new duties, abolish pipe-clay, give the men black belts, and at least one hour more a day would be at their disposal. The abominations of this pipe-clay, of leather stocks, of chacos, and of knapsacks for soldiers in India are unspeakable ; such things are a disgrace to the intelligence of the age. The wisdom of using them in the army resembles that of a manufacturer who should tie up the limbs or disable the right arms of his artificers in the hope of improving their hand-work. It is difficult to write with patience on such absurdities, therefore, I leave this subject to others, and conclude with expressing the hope that it may be taken up by more able hands than mine.

FINIS.

ENUMERATIO

SEMINUM REGII HORTI BOTANICI TAURINENSIS

ANNO 1852

Asterisco * notata lecta sunt vel in alpibus pedemontanis,
vel in Sardinia insula.

a. pl: annua; b. pl: biennis; p. pl: perennis; l. pl: lignosa.

DICOTYLEDONES

RANUNCULACEAE

ACONITUM *barbatum* Patr. omn. p.
 Lycoctonum L.
 orientale Mill
ACTAEA *Cimicifuga* L. p.
 spicata L. p.
ADONIS *autumnalis* L. a.
 vernalis L. p.
ANEMONE *alba* Juss. omn. p.
 baldensis L.
 hudsoniana Richards.
 narcissiflora L. *
 pennsylvanica L.
AQUILEGIA *atropurpurea* W. omn. p.
 canadensis L.
 elata Ledeb.
 glandulosa Fisch.
 parviflora Ledeb.
 sibirica Lmck.
 vulgaris L.
CALTHA *palustris* L. p.
CERATOCEPHALUS *falcatus* Pers. a.
CLEMATIS *alpina* Lmck. l. *
 angustifolia Jacq. p.
 balearica Rich. l. *
 erecta All. p.

CLEMATIS *Flammula* L. p.
 integrifolia L. p.
 ovata Pursh. p.
 parviflora DC. l.
 stricta Wend. p.
 Viticella L. l.
DELPHINIUM *Ajacis* L. a.
 commutatum Ait. p.
 exaltatum Ait. p.
 glabellum Turtsch. p.
 intermedium Ait. p.
 pictum W. b.
 tricornis Michx. p.
 urceolatum Jacq. p.
GARIDELLA *Nigellastrum* L. a.
HELLEBORUS *foetidus* L. p.
 lividus Ait. p. *
MYOSURUS *minimus* L. a.
NIGELLA *arvensis* L. omn. a.
 Damascena L. *
 orientalis L.
 sativa L.
PAEONIA *anomala* L. omn. p.
 commutata Wend.
 corallina Retz
 decora Anders.
 humilis Retz
 lobata Desf.

- PAONIA** *peregrina* Mill.
 splendens Sabin.
PULSATILLA *alpina* Spr. omn. p. *
 Halleri Willd.
 pratensis Mill.
 vernalis Mill. *
 vulgaris Mill.
RANUNCULUS *abortivus* L. p.
 aconitifolius L. p. *
 anemonefolius DC p.
 caucasicus Bieb. p.
 chius DC. a.
 corsicus DC. p.
 glacialis L. p. *
 illyricus L. p.
 lacerus Bellard. p.
 muricatus L. a.
 napellifolius DC. p.
 nemorosus DC. p.
 nodiflorus L. a.
 parviflorus L. p.
 pensylvanicus L. p.
 Philonotis Retz. a.
 rutaefolius L. p.
 trilobus Desf. p.
 tuberculatus Kit. a.
 tuberosus Lapeyr. p.
THALICTRUM *alpinum* L. omn. p.
 carolinianum Bosc.
 cinereum Desf.
 concinnum W.
 divaricatum Hornum.
 elatum Jacq.
 exaltatum Mey.
 foetidum L.
 majus L.
 microcarpum Loud.
 nigricans Jacq.
 oligospermum Fisch.
 purpurascens L.
 trigynum Fisch.
TROLLIUS *altaicus* C. A. Mey. p.

ANONACEAE

- ANONA** *Cherimolia* Mill. l.
 glabra L. l.

BERBERIDACEAE

- BERBERIS** *Aquifolium* Pursh. omn. l.
 chinensis Desf.
 repens Lindl.

PAPAVERACEAE

- ESCHSCHOLTZIA** *crocea* Benth. p.
GLAUCIUM *Fischeri* Bernh. p.
 luteum Scop. p.
PAPAVER *Argemone* L. a.
 bracteatum Lindl. p.
 dubium L. a.
 pilosum Sith. et Sm. p.
 Rhoeas L. a.
 somniferum L. a.

FUMARIACEAE

- CORYDALIS** *capnoides* Pers. p.
 glauca Pursh. a.
CYSTICAPNOS *africana* Gaertn. a.

CRUCIFERAE

- AETHIONEMA** *coridifolium* DC. p.
 heterocarpum Gay. p.
ALYSSUM *alpestre* L. l.
 argenteum Witm. p.
 atlanticum Desf. p.
 cdentulum W. Kit. p.
 hirsutum Bieb. p.
 Marshallianum Andr. p.
 montanum L. p. *
 obtusifolium Stev. p.
 savranicum Andr. p.
 saxatile L. p. l.
 tortuosum Kit. p.
 umbellatum Desv. p.
 Wiertzickii Reichenbch. p.
ANASTATICA *Hierochuntica* L. a.
ARABIS *Allionii* DC. p.
 arenosa L. p.
 borealis Andr. p.
 brassicaeformis Wallr. p.
 ciliata R. Br. a.
 coerulea Wulf. p.
 declinata Schrad. p.
 Halleri L. p.
 hirsuta L. p.
 lilacina Schrad. p.
 ludowiciana Fisch. et Mey. b.
 muralis Bertol. p.
 oxyota DC. p.
 pendula L. p.
 petraea Crantz. p.
 procurrens W. K. p.

ARABIS *pumila Wulf. p.*
 rosea DC. b.
 saxatilis All. b.
 Stelleri DC. p.
 stricta Huds. p.
 turrita L. b.
 verna R. Br. a.
AUBRIETIA *deltoidea DC. p.*
BARBAREA *occidentalis DC. b.*
 orthoceras Ledeb. p.
 vulgaris DC. b.
BERTEROA *incana DC. b.*
 mutabilis DC. p.
BISCUTELLA *apula L. omn. a.*
 auriculata L.
 ciliata DC.
 erigerifolia DC.
 eriocarpa DC.
 lyrata L.
 maritima Ten.
 raphanifolia Poir.
BRASSICA *balearica Rich. l.*
 campestris L. a.
 Cheiranthus Vill. b.
 cretica Lmck. l.
 Eruca L. a.
 insularis Moris. l.
BUNIAS *orientalis L. p.*
CAKILE *aegyptiaca W. a.*
 maritima Scop. a.
CAMELINA *dentata Pers. a.*
 sativa Crantz. a.
CARDAMINE *impatiens L. b.*
CHEIRANTHUS *Cheiri L. l.*
 semperflorens Schousb. l.
COCHLEARIA *glastifolia L. b.*
 officinalis L. b.
CRAMBE *hispanica L. a.*
 maritima L. p.
 pinnatifida R. Br. p.
 tatarica Jacq. p.
DIPLOTAXIS *crucoides DC. a.*
 tenuifolia DC. p.
 viminea DC. a.
DRABA *aizoides L. omn. p.*
 contorta Ehrh.
 fladnicensis Wulf.
 Gmelini Adans.
 hirta L.
 lapponica W.
 laxa Lindl.
 rivularis Hornm.
 rupestris R. Br.
 scandinavica Lindbl.

ERUCARIA *aleppica Gaertn. a.*
ERUCASTRUM *obtusangulum Rehbch. p.*
 Pollichii Schimp. et Spenn. p.
ERYSIMUM *altaicum C. A. Mey. p.*
 cheiranthoides L. b.
 hieracifolium L. a.
 *lanceolatum R. Br. p. **
 perfoliatum Crantz. a.
 perofskianum Fisch. a.
 Redowskii Weinm. b.
 repandum L. a.
 rupestre DC. b.
FARSETIA *clypeata R. Br. b.*
GOLDBACHIA *torulosa DC. a.*
HESPERIS *matronalis L. p.*
IBERIS *amara L. a.*
 ciliata All. p.
 coronaria D. Don. a.
 garrexiana All. l.
 gibraltarica L. p.
 Lagascana DC. a.
 neglecta Ten. a.
 pinnata L. a.
 pubescens W. b. p.
 sempervirens L. l.
 taurica DC. b.
 umbellata L. a.
 violacea Ait. b.
ISATIS *aleppica Scop. b.*
 tinctoria L. b.
LEPIDIUM *affine Ledeb. p.*
 cordatum W. p.
 hirtum Sm. p.
 Iberis L. p.
 latifolium L. p.
 sativum L. a.
 virginicum L. a.
LOBULARIA *canescens Steud. p.*
 halimifolia Steud. l.
 libyca Meissn. a.
 maritima Desv. p.
LUNARIA *rediviva L. b.*
MALCOLMIA *africana R. Br. omn. a.*
 arenaria DC.
 bicolor H. Genuens.
 chia DC.
 maritima R. Br.
 parviflora DC.
MATTHIOLA *arborescens Schrank. l.*
 fenestralis R. Br. l.
 glabra DC. l.
 incana R. Br. l.
 saxatilis Bernh. l.
 tricuspidata R. Br. b.

MORICANDIA hesperidiflora DC. a.
 MYAGRUM perfoliatum L. b.
 NASTURTIIUM amphibium R. Br. p.
 globosum Fisch. et Mey. b.
 indicum DC. a.
 pyrenaicum R. Br. p.
 NOTOCERAS R. Br. a.
 OCHTHODIUM aegyptiacum DC. a.
 PELTARIA alliacea L. p.
 SINAPIS Allionii Jacq. a.
 brassicata L. a.
 dichotoma Roxb. a.
 dissecta Lagasc. a.
 incana L. a.
 integrifolia W. a.
 juncea L. a.
 nigra L. a.
 pubescens L. p.
 SISYMBRIUM bursifolium L. a.
 Loeselii L. b.
 pinnatifidum DC. p. *
 polyceratium L. a.
 Sophia L. a.
 strictissimum L. p.
 supinum L. a.
 SUCCOWIA balearica DC. a.
 THLASPI alliaceum L. a.
 perfoliatum L. a. *
 VELLA annua L. a.
 VESICARIA reticulata Lmck. p.
 sinuata Poir. p.
 utriculata Lmck. l.

CAPPARIDACEAE

CLEOME pentaphylla L. a.
 pungens Willd. a.
 violacea L. a.
 viscosa L. b. p.

RESEDACEAE

RESEDA alba L. a.
 lutea L. a.
 luteola L. b.
 mediterranea L. a.
 Phyteuma L. a.
 virescens Horn. a.

CISTACEAE

CISTUS albidus L. omn. l.
 creticus L.

CISTUS cupanianus Presl. omn. l.
 formosus Curt.
 garganicus Ten.
 hirsutus Lmck.
 laurifolius L.
 salvifolius L.
 vaginatus Ait.
 HELIANTHEMUM canariense Pers. l.
 Laevipes Pers. l.
 ledifolium Pers. a.
 lunulatum DC. l.
 obscurum Pers. p.
 pulverulentum Pers. l.
 salicifolium Pers. a.

VIOLACEAE

VIOLA arborescens L. l.
 arenaria DC. p.
 biflora L. p.
 blanda W. p.
 calycantha H. Dresd. p.
 canadensis L. p.
 cucullata Ait. p.
 dactyloides R. S. p.
 hederacea Labill. p.
 multifida W. p.
 nummulariaefolia All. p.
 occulta Lehm. a.
 palmensis Webb. a.
 prionantha Bunge. p.
 suavis Bieb. p.
 tricolor L. a.

PITTOSPORACEAE

PITTOSPORUM eriocarpum Royle. l.

CARYOPHYLLACEAE

ARENARIA balearica L. p.
 glandulosa Jacq. p.
 glomerata Bieb. a.
 gothica Fries.
 graminifolia Schrad. p.
 grandiflora L. p.
 laricifolia L. p.
 longifolia Bieb. p.
 modesta Dufour. a.
 molluginea Sering. a.
 mucronata L. a.

ARENARIA *nardifolia* Ledeb. p.
norvegica Gunn. p.
rubra L. a.
villosa Ledeb. p.
CERASTIUM *dichotomum* L. a.
grandiflorum W. K. p.
illyricum Ard. a.
latifolium L. p.
perfoliatum L. a.
repens L. p.
CUCUBALUS *baccifer* L. p.
DIANTHUS *Armeria* L. a.
asper Willd. p.
atrorubens All. p.
barbatus L. p.
caesius Smith. p.
Carthusianorum L. p.
chinensis L. p.
cruentus Griseb. p.
cyathophorus Moris. p. * (1).
deltoides L. p.
imperialis Van-Hout. b.
liburnicus Bartl. p.
plumarius L. p.
serotinus W. K. p.
squarrosus Bieb. p.
superbus L. p.
sylvestris Wulf. p.
trifasciculatus Kit. p.
versicolor Fisch. p.
DRYMARIA *divaricata* Kunth. a.
DRYPIS *spinosa* L. b.
GYPSOPHILA *acutifolia* Fisch. p.
elegans Bieb. a.
glaucia Stev. p.
paniculata L. p.
saligna Schrad. p.
LECHEA *minor* L. p.
LYCHNIS *chalcedonica* L. p.
Coeli-rosa Desr. a. *
coronaria Desr. p.
dioica L. p.
Flos-Cuculi L. p.
Flos-Jovis Desr. p.
laeta Ait. a.
sibirica L. p.
MOLLUGO *verticillata* L. a.
ORTEGIA *hispanica* L. p.
SAGINA *bryoides* Froel.
SAPONARIA *cerastoides* Fisch. a.
lutea L. p.
officinalis L. p.
orientalis L. a.
persica H. Haun. a

SAPONARIA *Vaccaria* L. a.
SILENE *acaulis* L. p. *
altaica Pers. p.
antirrhina L. a.
apetala W. a.
Armeria L. a.
Behen L. p.
brachypetala DC. a.
bupleuroides L. p.
catholica Ait. p.
cerastoides L. a.
conoidea L. a.
cretica L. a.
dichotoma Ehrh. a.
disticha W. a. p.
Duriaei Spach. a.
fimbriata Sims. p.
flavescens W. K. p.
fruticosa L. l.
gallica L. a.
geminiflora W. a.
hispida Desf. a.
inaperta L. a.
italica L. p.
latifolia Poir. p.
linicola Wibel. a.
longiflora Ehrh. p.
lusitanica L. a.
muscipula L. a.
nicacensis All. a.
nocturna L. a.
obtusifolia W. a.
ornata Ait. b.
parviflora Pers. p.
pensylvanica Michx. p.
picta Pers. a.
portensis L. a.
procumbens Murr. p.
quadridentata Pers. p.
quinquevulnera L. a.
repens Patr. p.
rubella L. a.
rupestris L. p.
Salzmanni Otth. p.
saponariaefolia Schott. p.
Saxifraga L. p.
Schafta Gmel. p.
sericea All. a.
tridentata Desf. a.
undulata Ait. b.
vespertina Retz. a.
SPERGULA *arvensis* L. omu. a.
pentandra L.
subulata Sw

SPERGULASTRUM gramineum *Michx.* p.
 STELLARIA graminea *L.* p.
 viscida *Bieb.* a.

LINACEAE

LINUM angustifolium *Huds.* p.
 austriacum *L.* p.
 croaticum *H. Tic.* a.
 flavum *L.* a.
 gallicum *L.* a.
 maritimum *L.* p.
 nodiflorum *L.* a.
 pallescens *Bunge.* p.
 perenne *L.* p.
 sibiricum *DC.* p.
 strictum *L.* a.
 suffruticosum *L.* l.
 usitatissimum *L.* a.

MALVACEAE

ALTHAEA cannabina *L.* p.
 narbonensis *Pourr.* p.
 officinalis *L.* p.
 rosea *Cav.* b.
 taurinensis *DC.* p.
 ANODA cristata *Schlechtl.* a.
 triangularis *DC.* a.
 HIBISCUS cannabinus *L.* b.
 diversifolius *Jacq.* l.
 militaris *L.* p.
 Moscheutos *L.* p.
 pedunculatus *Thunb.* l.
 syriacus *L.* l.
 Trionum *L.* a.
 LAVATERA cretica *L.* b.
 maritima *Gouan.* l. *
 phoenicea *Vent.* l.
 punctata *All.* a.
 trimestris *L.* a. *
 MALACHRA alcaeaefolia *Jacq.* a.
 MALOPE trifida *Cav.* a.
 MALVA americana *L.* a.
 angustifolia *Cav.* p.
 brasiliensis *Desr.* a.
 caroliniana *L.* a.
 limensis *L.* a.
 microcarpa *Desf.* a.
 miniata *Cav.* l.
 parviflora *L.* a.
 rotundifolia *L.* b.

MALVA scoparia *Herit.* p.
 sherardiana *L.* p.
 spicata *L.* p.
 tricuspidata *Ait.* a.
 verticillata *L.* p.
 PALAVIA malvaefolia *Cav.* a.
 PAVONIA Pentacarpos *Poir.* p.
 PENTAPETE phoenicea *L.* b. p.
 RIEDLEJA corchorifolia *DC.* a.
 SIDA americana *L.* a.
 angustifolia *Juss.* p.
 asiatica *L.* a.
 atropurpurea *Blume.* l.
 betulina *Horn.* a.
 crispa *L.* a.
 humilis *Cav.* a.
 indica *L.* a.
 jatrophioides *Herit.* a.
 mauritanica *Herit.* a.
 mollis *Ortega.* l.
 occidentalis *L.* a.
 parviflora *DC.* p.
 rhombifolia *L.* p.
 rotundifolia *Cav.* a.
 tiliaefolia *Fisch.* a.
 triloba *Thunb.* p. l.

STERCULIACEAE

STERCULIA platanifolia *L. fil.* l.

BUTTNERIACEAE

BÜTTNERIA pannosa *DC.*
 HERMANNIA althaeoides *Link.* omn. l.
 denudata *L.*
 incana *Cav.*
 LASIOPETALUM corylifolium *H. Kew.* l.
 ferrugineum *Sims.* l.
 THOMASIA Macrocalyx *Steud.* omn. l.
 purpurea *Gay*
 solanacea *Gay*
 WALTHERIA elliptica *Cav.* p. l.

TILIACEAE

ARISTOTELIA Macqui *Herit.* l.
 CORCHORUS hirtus *L.* omn. a.
 olitorius *L.*
 trilocularis *L.*
 ENTELEA arborescens *R. Br.* l.
 palmata *Lindl.* l.

MAHERNIA bipinnatifida *DC.* l.
 TILIA glabra *Vent.* omn. l.
 grandifolia *Ehrh.*
 parvifolia *Ehrh.*
 TRIUMFETTA tomentosa *Telfair.* l.

HYPERICACEAE

ANDROSAEMUM officinale *All.* l.
 HYPERICUM australe *Ten.* p. *
 capitatum *Chois.* p.
 Coris *L.* p.
 crispum *L.* p.
 decussatum *Kunze.* p.
 floribundum *Ait.* l.
 hircinum *L.* l.
 olympicum *L.* l.
 tomentosum *L.* p.

MALPIGHIACEAE

MALPIGHIA macrophylla *W.* l.

ACERACEAE

ACER campestre *L.* omn. l. *
 dissectum *Thunb.*
 monsperulanum *L.*
 obtusatum *W. et K.*
 obtusifolium *Sims.*
 pennsylvanicum *L.*
 Pseudoplatanus *L.* *
 spicatum *Lam.*
 tataricum *L.*

SAPINDACEAE

AESCULUS flava *Ait.* omn. l.
 Hippocastanum *L.*
 ohiensis *Michx.*
 pallida *W.*
 rubicunda *Lodd.*
 CARDIOSPERMUM Halicacabum *L.* a.
 KOELREUTERIA paniculata *Laxm.* l.

MELIACEAE

MELIA Azedarach *L.* l.
 baccifera *Roth* l.

SARMENTACEAE

VITIS heterophylla *Thunb.* l.

GERANIACEAE

ERODIUM arabicum *Dcaisn.* a.
 Botrys *Pers.* a.
 carvifolium *Boiss.* p.
 chium *W.* a.
 ciconium *W.* a.
 gruinum *W.* a.
 hymenodes *Herit.* l.
 laciniatum *W.* a.
 Melanostigma *Mart.* a.
 moschatum *W.* a.
 romanum *W.* p.

GERANIUM bohemicum *L.* a.
 carolinianum *L.* a.
 cristatum *Stev.* p.
 dissectum *L.* a.
 ibericum *Cav.* p.
 Londesii *Fisch.* p.
 nodosum *L.* p.
 pratense *L.* p.
 pusillum *L.* a.
 sanguineum *L.* p.
 sibiricum *L.* p.
 striatum *L.* p.

MONSONIA ovata *Cav.* b.

PELARGONIUM coriandrifolium *Jacq.* p.
 Heritieri *Jacq.* l.
 lacerum *Jacq.* l.
 myrrhifolium *Ait.* p.
 saniculaefolium *W.* l.
 tabulare *Herit.* l.
 tomentosum *Jacq.* l.

TROPAEOLACEAE

TROPAEOLUM majus *L.* a.
 minus *L.* a. p.

BALSAMINACEAE

IMPATIENS Balsamina *L.* a.

OXALIDACEAE

OXALIS asinina *Jacq.* p.
 boweana *Lodd.* p.

Oxalis canescens *Jacq.* p.
 cernua *W.* p.
 compressa *L. f.* p.
 cruenta *Jacq.* p.
 dentata *Jacq.* p.
 flabellifolia *Jacq.* p.
 grandiflora *Jacq.* p.
 hirta *L.* p.
 incarnata *L.* p.
 lanata *L. f.* p.
 lancifolia *Jacq.* p.
 lateriflora *Jacq.* p.
 laxula *Jacq.* p.
 leporina *Jacq.* p.
 loddigesiana *Eckl.* p.
 martiana *Zucc.* p.
 pentaphylla *Sims.* p.
 Piottae *Colla.* p.
 punctata *L.* p.
 rosacea *Jacq.* p.
 rosea *Jacq.* a.
 rubella *Jacq.* p.
 speciosa *Jacq.* p.
 variabilis *Jacq.* p.
 versicolor *L.* p.

ZYGOPHYLLACEAE

Zygophyllum Fabago *L.* p.

RUTACEAE

Dictamnus albus *L.* p.
Ruta bracteosa *DC.* p. 1.
 graveolens *L.* p.
Tribulus terrestris *L.* a.

STAPHYLEACEAE

Staphylea trifolia *L.* 1.

CELASTRACEAE

Celastrus edulis *Vahl.* 1.
Evonymus americanus *L.* omn. 1.
 atropurpureus *L.*
 chinensis *Lour.*
 latifolius *Mill.*
 verrucosus *L.*

AQUIFOLIACEAE

Ilex angustifolia *W.* omn. 1.
Aquifolium *L.*
Cassine *L.*
Perado *Ait.*

RHAMNACEAE

Ceanothus americanus *L.* omn. 1.
 intermedius *Pursh.*
 microphyllus *Michx.*
Paliurus australis *Gaertn.* 1.
Rhamnus Clusii *W.* 1.
 infectorius *L.* 1.
Zizyphus vulgaris *Linck.* 1.

TEREBINTHACEAE

Rhus Coriaria *L.* 1.
 Cotinus *L.* 1. *

XANTHOXYLACEAE

Ptelea trifoliata *L.* 1.

LEGUMINOSAE

Acacia acanthophora *W.* omn. 1.
 cultriformis *Hook.*
 cyanophylla *Reuth.*
 dealbata *Link.*
 farnesiana *W.*
 glauca *W.*
 lophantha *W.*
 β speciosa.
 stricta *W.*
Adesmia muricata *DC.* a.
Aeschynomene americana *L.* a.
Anthyllis cornicina *L.* a.
 tetraphylla *L.* a.
 vulneraria *L.* p.
Arachis hypogea *L.* a.
Astragalus aegyptiacus *Spr.* a.
 annularis *Forsk.* a.
 assurgens *Pall.* p.
 boeticus *L.* a.
 Cicer *L.* p.
 contortuplicatus *L.* a.
 cymbacarpus *Brot.* a.

ASTRAGALUS *Epiglottis* L. a.
 falcatus Lmck. p.
 galegaeformis L. p.
 hamosus L. a.
 juvenalis Delil. a.
 Laxmanni Jacq. p.
 leontinus Jacq. p. *
 monspessulanus L. p. *
 Onobrychis L. p.
 Pentaglottis L. a.
 rupifragus Pall. p.
 scorpioides Pourr. a.
 sulcatus L. p.
 trimestris L. a.
BAPTISIA *australis* R. Br. p.
 exaltata Sweet. p.
BISERRULA *Pelecinius* L. a.
CAJANUS *flavus* DC. l.
CALLISTACHYS *lanceolata* Vent. omn. l.
 ovata Sims.
 retusa Lodd.
CARAGANA *frutescens* DC. l.
 spinosa DC. l.
CARMICHAELIA *australis* R. Br. l.
CASSIA *acuminata* W. l.
 falcata L. a.
 umbellata Rchbch. l.
CERCIS *Siliquastrum* L. l.
CHORIZEMA *nanum* Sims. omn. l.
 rhombeum R. Br.
 rotundifolium Hort.
 varium Benth.
CICER *arietinum* L. a.
COLLAEA *velutina* Benth. p.
COLUTEA *arborescens* L. omn. l.
 halepica Lmck.
 orientalis Lmck.
CORONILLA *coronata* L. p.
 cretica L. a.
 glauca L. p.
 junceae L. p.
 montana Scop. p.
 scorpioides Koch. a.
 vaginalis Lmck. p.
 varia L. p.
CROTALARIA *biflora* L. omn. a.
 incana L.
 laburnifolia L.
 parviflora Roth.
 retusa L.
CYTISUS *purpureus* Scop. omn. l.
 sessilifolius L.
 uralensis Ledeb.
DALEA *Lagopus* W. a.

DARLINGTONIA *glandulosa* DC. l.
DESMANTHUS *strictus* Bertol. l.
DESMODIUM *canadense* DC. omn. p.
 ciliare DC.
 viridiflorum DC.
DOLICHOS *biflorus* L. omn. a.
 lathyroides H. Pisan.
 purpureus L.
 unguiculatus L.
DORYCNium *hirsutum* Sering. l.
 rectum Sering. l.
ERVUM *Camelorum* Spr. a.
 Lens L. a.
GALEGA *biloba* Sw. omn. p.
 officinalis L.
 orientalis Lmck.
GENISTA *aetnensis* DC. l. *
 canariensis L. l.
 linifolia L. l.
 mantica Pall. p.
 ovata W. et Kit. p.
 stenopetala Webb. l.
GLEDITSCHIA *sinensis* Lmck. l.
 triacanthos L. l.
GLYCYRRHIZA *echinata* L. p.
 foetida Desf. p.
GOODIA *latifolia* Salisb. l.
HARDENBERGIA *comptoniana* Benth. l.
 monophylla Benth. l.
 ovata Benth. l.
HEDYSARUM *altaicum* Fisch. p.
 coronarium L. b.
 flexuosum L. b.
 fruticosum L. l.
 humile L. p.
 obscurum L. p.
HIPPOCREPIS *multisiliquosa* L. a.
INDIGOFEra *amoena* Ait. l.
 trita L. fl. b.
KENNEDIA *purpurea* Hort. l.
 rubicunda Vent. l.
LABLAB *nanquiniensis* Savi. a.
 vulgaris Savi. a.
LATHYRUS *articulatus* L. a.
 auriculatus Bertol. a.
 Cicera L. a.
 hirsutus L. a.
 latifolius L. p.
 macranthus Lang. p.
 odoratus L. a.
 pisiformis L. p.
 sativus L. a.
 setifolius L. a.
 sphacricus Retz. a.

LATHYRUS *sylvestris* L. p.
 tuberosus L. p.
LESPEDEZA *polystachya* Michx. p.
 sessiliflora Nutt. p.
LESSERTIA *annua* DC. a.
 perennans DC. b. p.
LOTUS *arabicus* L. a.
 corniculatus L. p.
 cytisoides L. a.
 edulis L. b.
 glinoides Delil. a.
 gracilis W. K. a.
 Jacobaea L. l.
 major Scop. p.
 ornithopodioides L. a.
 peregrinus L. a.
 tenuifolius Presl. p.
LUPINUS *albus* L. a.
 angustifolius L. a. *
 Hartwegii Bot. Reg. p.
 laxiflorus Dougl. p.
 pilosus L. a.
 polyphyllus Dougl. p.
 variegatus Fisch. p.
MEDICAGO *apiculata* W. a.
 berteriana Moris. a.
 bonplandiana H. Prag. a.
 caspica Fisch. a.
 ciliaris W. a.
 circinnata L. a.
 cretacea Bieb. p.
 Echinus DC. a.
 elegans Jacq. a.
 falcata L. p.
 glomerata Balb. p.
 glutinosa Bieb. p.
 Helix W. a.
 laciniata All. a.
 lappacea Desr. a.
 maculata W. a.
 Murex W. a. -
 muricata All. a.
 obscura Retz. a.
 orbicularis W. a.
 pentacycla DC. a.
 polycarpa W. a.
 rigidula Lmck. All. a.
 scutellata Lmck. a.
 sphaerocarpa Bertol. a.
 Terebellum W. a.
 tribuloides Lmck. a.
 tuberculata W. a.
 turbinata W. a.
 villosa Brot.

MELILOTUS *Bonplandii* Ten. a.
 dentata W. a.
 italica Lmck. a.
 mauritanica W. a.
 officinalis L. b.
 parviflora Desf. a.
MIMOSA *pudica* L. b.
ONOBRYCHIS *arenaria* DC. p.
 Crista galli Lmck. a.
 sativa Lmck. p.
 supina DC. p.
ORNITHOPUS *compressus* L. a.
OROBUS *alpestris* W. K. p.
 atropurpureus Desf. p.
 lathyroides L. p.
 niger L. p.
 saxatilis Vent. a.
 tuberosus L. p.
 variegatus Lapeyr. p.
 vernus L. p.
OXYTROPIS *baicalia* Pers. omn. p.
 foetida DC.
 montana DC. *
 uralensis DC. *
PHACA *australis* L. p. *
PHASEOLUS *farinosus* L. omn. a.
 inamoenus L.
 lunatus L.
 multiflorus Lmck.
 Mungo L.
 pictus Cav.
 ricciardianus Ten.
 rufus Jacq.
 semirectus L.
 trilobus Ait.
 tunkinensis Lour.
 vexillatus L.
PISUM *abyssinicum* H. Erf. omn. a.
 arvense L.
 maritimum L.
 thebaicum W.
POCOCKIA *cretica* DC. a.
PSORALEA *corylifolia* L. a.
PULTENEA *subumbellata* Hook. l.
RHYNCHOSIA *caribaea* Jacq. l.
 minima DC. a.
 precatoria DC. l.
ROBINIA *tortuosa* Hoffmsg. l.
SCORPIURUS *muricata* L. omn. a.
 subvillosa L.
 vermiculata L.
SECURIGERA *Coronilla* DC. a.
SOJA *hispida* Moench. a.
SOPHORA *alopecuroides* L. p.

SOPHORA japonica *L.* l.
 tomentosa *L.* l.
 SUTHERLANDIA frutescens *R. Br.* l.
 TETRAGONOLOBUS conjugatus *Link* a.
 purpureus *Moench.* a.
 siliculosus *Roth.* p.
 THERMOPSIS fabacea *DC.* p.
 TRIFOLIUM albidum *Retz.* a.
 alexandrinum *L.* a.
 alpestre *L.* p.
 alpinum *L.* p. *
 angustifolium *L.* a.
 arvense *L.* a.
 Cherleri *L.* a.
 clypeatum *L.* a.
 diffusum *Ehrh.* a.
 globosum *L.* a.
 glomeratum *L.* a.
 hispidum *Desf.* a.
 incarnatum *L.* a.
 lappaceum *L.* a.
 maritimum *Huds.* a.
 medium *L.* p.
 ochroleucum *L.* p.
 pannonicum *L.* p.
 resupinatum *L.* a.
 rubens *L.* p.
 scabrum *L.* a.
 spumosum *L.* a. *
 squarrosus *L.* a.
 stellatum *L.* a.
 striatum *L.* a.
 strictum *L.* a.
 subterraneum *L.* a.
 suffocatum *Sm.* a.
 tomentosum *L.* a.
 vesiculosum *Savi.* a.
 TRIGONELLA aegyptiaca *Poir.* omn. a.
 Calliceras *Fisch.*
 corniculata *L.*
 Foenum graecum *L.*
 gladiata *Stev.*
 hamosa *L.*
 laciniata *L.*
 monspeliaca *L.*
 ornithopodioides *DC.*
 pinnatifida *Cav.*
 polycerata *L.*
 spinosa *L.*
 striata *L.*
 tenuis *Fisch.*
 VICIA atropurpurea *Desf.* a.
 bithynica *L.* a.
 calcarata *Desf.* a.

VICIA cassubica *L.* p.
 cordifolia *Wulf.* a.
 Dumetorum *L.* p.
 hybrida *L.* a.
 megalosperma *Bieb.* a.
 Musquinez *Bosc.* a.
 pannonica *Jacq.* a.
 pisiformis *L.* p.
 polyphylla *Desf.* a.
 Pseudorobus *Fisch.* p.
 Sepium *L.* p.
 sordida *W. K.* a.
 syriaca *Weinm.* a.
 VIGNA glabra *Savi.* a.
 villosa *Savi.* a.
 VIRGILIA lutea *Michx.* l.

DRUPACEAE

AMYGDALUS glandulosa *Hook.* l.
 PRUNUS Padus *L.* omn. l.
 prostrata *Labill.*
 serotina *Ehrh.*

POMACEAE

COTONEASTER acuminata *Lindl.* omn. l.
 buxifolia *Wall.*
 melanocarpa *Lodd.*
 microphylla *Wall.*
 uniflora *Bung.*
 CRATAEGUS alnifolia *Hort.* omn. l.
 Aronia *Bosc.*
 coccinea *L.*
 cordata *Ait.*
 Crus-galli *L.*
 glandulosa *Ait.*
 lobata *Bosc.*
 nigra *W.*
 parvifolia *Ait.*
 spathulata *Michx.*
 PYRUS arbutifolia *L. fil.* omn. l.
 baccata *L.*
 elaeagnifolia *Pall.*
 intermedia *Ehrh.*
 nivalis *L.*
 salvifolia *DC.*
 spectabilis *Ait.*
 RAPHIOLEPIS indica *Lindl.* l.

ROSACEAE

- AGAENA sericea *Jacq.* l.
 AGRIMONIA Eupatoria *L.* omn. p.
 leucantha *H. Christ.*
 suaveolens *Pursh.*
 taurica *H. Christ.*
 ALCHEMILLA alpina *L.* p.
 vulgaris *L.* p.
 GEUM canadense *Murr.* omn. p.
 chilense *Balb. Berter.*
 coccineum *Sibth.*
 hirtum *Wahlbrg.*
 intermedium *Ehrh.*
 Laxmanni *Gaertn.*
 rivale *L.*
 sylvaticum *Pourr.*
 urbanum *L.*
 POTENTILLA agrimonioides *Bieb.* p.
 argentea *L.* p.
 atrosanguinea *Don.* p.
 calabra *Ten.* p.
 canadensis *L.* p.
 Comarum *Scop.* p.
 floribunda *Pursh* l.
 glandulosa *Lindl.* p.
 hirta *L.* p.
 kurdica *Boiss.* p.
 laciniosa *Kit.* p.
 mollissima *Lehm.* p.
 multifida *L.* p.
 nepalensis *Hook.* p.
 paradoxa *H Lips.* p.
 recta *L.* p.
 Richardsonii *Dougl.* p.
 supina *L.* a.
 Thomasii *Ten.* p.
 verticillaris *Steph.* p.
 POTERIUM Sanguisorba *L.* p.
 SANGUISORBA officinalis *L.* p.
 tenuifolia *Fisch. Link.* p.
 SIBBALDIA cuneata *H. Christ.* p.
 procumbens *L.* p.
 SPIRAEA argentea *L. fil.* l.
 Aruncus *L.* p.
 crenata *L.* l.
 digitata *W.* p.
 Filipendula *L.* p.
 lanceolata *Poir.* l.
 lindleyana *Wall.* l.
 opulifolia *L.* l.
 salicifolia *L.* l.
 sorbifolia *L.* l.
 Ulmaria *L.* p.

WALDSTEINIA geoides *W.* p.

ONAGRACEAE

- CIRCAEA lutetiana *L.* p.
 CLARKIA elegans *Dougl.* b.
 pulchella *Pursh.* a.
 EPILOBIUM angustifolium *L.* omn. p.
 coloratum *Mühl.*
 hirsutum *L.*
 parviflorum *Schreb.*
 FUCHSIA arborescens *Sims.* l.
 corymbiflora *R. P.* l.
 GAURA biennis *L.* b.
 Lindheimeri *Engel.* p.
 mutabilis *Cav.* p.
 parviflora *Hook.* b.
 tripetala *Cav.* a.
 ISNARDIA alternifolia *DC.* p.
 JUSSIAEA erecta *L.* a.
 LOPEZIA mexicana *Jacq.* a.
 OENOTHERA biennis *L.* b.
 cheiranthifolia *Horn.* a.
 chilensis *Desf.* a.
 cruciata *Nutt.* b.
 densiflora *Lindl.* a.
 longiflora *Jacq.* b.
 mollissima *L.* p.
 muricata *Murr.* b.
 odorata *Jacq.* a.
 parviflora *L.* a.
 purpurea *Curt.* a.
 rhizocarpa *Spr.* p.
 sinuata *L.* a.
 suaveolens *Desf.* b.
 tetraptera *Cav.* p.

HALORAGACEAE

HIPPURIS vulgaris *L.* p.

LYTHRACEAE

- AMMANNIA latifolia *L.* a.
 ramosior *L.* a.
 CUPHEA denticulata *H. B.* l.
 procumbens *Cav.* a.
 viscosissima *Jacq.* a.
 HEIMIA myrtifolia *Schlecht.* l.
 salicifolia *Link.* l.
 LYTHRUM Hyssopifolia *L.* b.

LYTHRUM *Salicaria* L. p.
Thymifolia L. a.
tomentosum Mill. p.
 PEPLIS *biflora* Salz. a.

TAMARICACEAE

TAMARIX *africana* Poir. l. *
gallica L. l.

MYRTACEAE

CALLISTEMON *lanceolatum* DC. omn. l.
linearifolium DC.
pallidum DC.
pinifolium DC.
 JAMBOSA *australis* DC. l.
 LEPTOSPERMUM *scoparium* Forst. l.
 MYRTUS *communis* L. l.
boetica.
italica.
tarentina.
 PSIDIUM *montanum* Sw. l.
pyriferum L. l.

CUCURBITACEAE

ANGURIA *pedata* L. p.
 BRYONIA *abyssinica* Lmck. p.
dioica L. p.
 CUCUMIS *Anguria* L. omn. a.
flexuosus L.
Prophetae L.
 CYCLANTHERA *pedata* Schrad. a.
 MOMORDICA *Charantia* L. a.
Elaterium L. p.
operculata L. a.
 SICYOS *angulata* L. a.

PASSIFLORACEAE

PASSIFLORA *albicans* Loud. l.
foetida Cav. a.
suberosa Jacq. l.

PORTULACACEAE

CALANDRINIA *compressa* Schrad. a.
discolor Schrad. l.
procumbens Moris. a.

CLAYTONIA *perfoliata* Don. a.
 PORTULACA *grandiflora* Cambess. a.
mucronata Link. a.
pilosa L. a.
 TALINUM *patens* W. a.

PARONYCHIACEAE

ANYCHIA *dichotoma* Michx. p.
 CORRIGIOLA *litoralis* L. a.
telephiifolia Pourr. p.
 LOEFFLINGIA *hispanica* L. a.
 MINUARTIA *campestris* L. omn. a.
dichotoma L.
montana L.
 PARONYCHIA *herniarioides* Nutt. p.
 POLYCARPEA *Teneriffae* Lmck. a.
 TELEPHIUM *Imperati* L. p.

CRASSULACEAE

GRAMMANTHE *chloraeifolia* DC. a.
 PENTHORUM *sedoides* L. p.
 SEDUM *Aizoon* L. p.
Cepaea L. a.
coeruleum Vahl. a.
kamschaticum Fisch. p.
maximum Reichb. p.
monregalense Balb. p.
pallidum Bieb. p.
spurium Bieb. p.
stellatum L. a.
Telephium L. p.
 SEMPERVIVUM *arachnoideum* L. p.
 UNBILICUS *pendulinus* DC. p.

MESEMBRYACEAE

MESEMBRYANTHEMUM *crystallinum* L. a.
cuneifolium Jacq. a.
deltoideum Mill. l.
pinnatifidum L. a.
polyanthum Haw. l.
pyropaeum Haw. a.
spectabile Haw. l.
virgatum Haw. l.

TETRAGONIACEAE

AIZOON *glinoides* L. fil. p.
hispanicum L. a.

TETRAGONIA crystallina *Herit.* a.
expansa *Ait.* a.

CACTACEAE

MANMILLARIA crinita *DC.* omn. l.
pusilla *DC.*
stellata *Haw.*
OPUNTIA vulgaris *Mill.* p.
RHIPSA LIS Cassytha *Gaertn.* l.
ramulosa *Pfeiff.* l.

GROSSULARIACEAE

RIBES alpinum *L.* omn. l. *
floribundum *Herit.*
nigrum *L.*
oxyacanthoides *L.*

FRANCOACEAE

FRANCOA appendiculata *Cav.* p.

SAXIFRAGACEAE

HEUCHERA americana *L.* omn. p.
divaricata *Fisch.*
lucida *Lodd.*
macrophylla *Lodd.*
micrantha *Dougl.*
ribifolia *Fisch. et Lallemand.*
Richardsonii *R. Br.*
HYDRANGEA arborescens *L.* l.
nivea *Michx.* l.
SAXIFRAGA aizoon *L.* omn. p.
Cotyledon *L.*
crassifolia *L.*
cuneifolia *L.*
decipiens *Ehrh.*
geranioides *DC.*
granulata *L.*
hirsuta *L.*
hypnoides *L.*
irrigua *Bieb.*
muscoïdes *Wulf.*
oppositifolia *L.* *
pedemontana *All.*
rotundifolia *L.*
sedoides *L.*
tenella *Wulf.*
TELLIMA grandiflora *Lindl.* p.

UMBELLIFERAE

AEGOPODIUM Podagraria *L.* p.
AETHUSA Cynapium. *L.* a.
AMMI majus *L.* b.
Visnaga *L.* b.
ANGELICA lucida *L.* p.
sylvestris *L.* b.
ANOSMIA idaea *Bernh.* b.
ANTHRISCUS Cerefolium *Hoffm.* a.
nemorosus *Spr.* p.
torquata *Duby.* p.
APIUM fractophyllum *Horn.* b.
graveolens *L.* b.
ARCHANGELICA decurrens *Ledeb.* b.
ASTRANTIA helleborifolia *Salisb.* p.
major *L.* p.
ATHAMANTA Matthioli *Wulf.* p.
BIFORA radians *Bieb.* a.
BRIGNOLIA pastinacaefolia *Bertol.* p.
BUNUM alpinum *W. et Kit.* p. *
BUPLEURUM angulosum *L.* p.
heterophyllum *Link.* a.
stellatum *L.* p.
tenuissimum *L.* a.
CACHRYS involucrata *Pall.* p.
CALDASIA eriopoda *DC.* p.
CARUM Bulbocastanum *Koch.* p. *
CHAEROPHYLLUM bulbosum *L.* b.
hirsutum *L.* p.
CONIUM maculatum *L.* b.
CORIANDRUM sativum *L.* a.
CRYPTOTAENIA canadensis *DC.* p.
DAUCUS gummifer *Linck.* b.
ERYNGIUM alpinum *L.* omn. p.
Bourgati *Gouan.*
giganteum *Bieb.*
maritimum *L.*
planum *L.*
tricuspidatum *L.*
FERULA nodiflora *L.* p. *
thyrsiflora *Sibth. Sm.* p.
FOENICULUM dulce *L.* a.
vulgare *Gaertn.* p.
HELOSCIADIUM crassipes *Koch.* p.
HERACLEUM cordatum *Presl.* p.
Sphondylium *L.* p.
HYDROCOTYLE sibthorpioides *Linck.* p.
LASERPITIUM gallicum *L.* omn. p.
glabrum *Crantz.*
Siler *L.*
LEVISTICUM officinale *Koch.* p.
LIBANOTIS vulgaris *DC.* p.
LIGUSTICUM pyrenaicum *Gouan.* p.

MEUM athamanticum *Jacq.* p.
 OENANTHE crocata *L.* p.
 pimpinelloides *L.* p.
 OPOPANAX Chironium *Koch.* p.
 OSTERICUM pratense *Hoffm.* p.
 PASTINACA graveolens *Bieb.* p.
 pimpinellifolia *Bieb.* p.
 PEUCEDANUM Cervaria *Lapeyr.* p.
 PHYSOSPERMUM aquilegifolium *Koch.* p.
 PIMPINELLA Anisum *L.* a.
 peregrina *L.* a.
 rugosa *Hook.* p.
 Tragium *Vill.* p.
 PTYCHOTIS coptica *DC.* a.
 verticillata *Duby.* a.
 RIDOLFIA Segetum *Moris.* a.
 SCANDIX pinnatifida *Vent.* a.
 SESELI gracile *W. et K.* omn. p.
 petraeum *Bieb.*
 rigidum *W. K.*
 varium *Trev.*
 SILAUS tenuifolius *DC.* p.
 SIUM angustifolium *L.* p.
 Sisarum *L.* p.
 SMYRNIUM rotundifolium *Mill.* b. *
 THAPSIA Asclepium *L.* omn. p.
 garganica *L.* *
 polygama *Desf.*
 TORDYLIUM apulum *L.* omn. a. *
 maximum *L.*
 syriacum *L.*
 TRINIA vulgaris *DC.* b. *

ARALIACEAE

ARALIA japonica *Thunb.* l.
 racemosa *L.* p.
 spinosa *L.* l.

CORNACEAE

CORNUS alternifolia *L. fil.* l.
 paniculata *Herit.* l.

CAPRIFOLIACEAE

LEYCESTERIA formosa *Wall.* l.
 LONICERA alpigena *L.* omn. l.
 coerulea *L.*
 etrusca *Savi.* *
 SAMBUCUS Ebulus *L.* p.
 racemosa *L.* l. *

SYMPHORICARPUS racemosus *Michx.* l.
 VIBURNUM cassinoides *L.* omn. l.
 Lentago *L.*
 Oxycoccus *Pursh*
 prunifolium *L.*

RUBIACEAE

ASPERULA galioides *Bieb.* omn. p.
 longiflora *W. K.*
 montana *W. K.*
 odorata *L.*
 tinctoria *L.*
 CALLIPELTIS muralis *Moris.* a.
 CRUCIANELLA angustifolia *L.* a.
 glauca *Rich.* p.
 latifolia *L.* a.
 stylosa *Trin.* p.
 GALIUM adhaerens *Hortul.* p.
 boreale *L.* p.
 ellipticum *Presl.* p. *
 erectum *Huds.* p.
 nebulosum *Boiss.* a.
 rupestre *Visiani.* p.
 RUBIA peregrina *L.* p.
 Tinctorum *L.* p.
 SHERARDIA arvensis *L.* a.
 VAILLANTIA hispida *L.* a.
 muralis *L.* a.

CINCHONACEAE

BORRERIA capitellata *Chamss.* p.
 stricta *Mey.* b.
 DIODIA dasycephala *Chamss.* a.
 virginica *L.* a.
 HEDYOTIS lactea *W.* a.
 MITRACARPUM stylosum *Chamss.* a.
 villosum *Chamss.* a.
 PENTAS carnea *Benth.* l.
 SPERMACOCE hispida *L.* a.
 tenuior *L.* a.

VALERIANACEAE

CENTRANTHUS Calcitrapa *Dufr.* a.
 Macrosiphon *Boiss.* a.
 ruber *DC.* p.
 FEDIA Cornucopiae *Vahl.* a.
 VALERIANA dioica *L.* omn. p. *
 montana *L.*

VALERIANA officinalis L. omn. p.

Phu L.

sambucifolia Mikan.

VALERIANELLA coronata Duf. a. *

olitoria Moench. a.

DIPSACEAE

CEPHALARIA alpina R. S. p.

centauroides R. S. p.

DIPSACUS azureus Schrenk. p.

ferox Lois. b.

Fullonum Mill. b.

KNAUTIA orientalis L. a.

MORINA longifolia Wallich. p.

PTEROCEPHALUS papposus Coult. a.

SCABIOSA africana L. l.

ambigua Ten. p.

atropurpurea L. b.

caucasica Bieb. p.

cretica L. l.

dichotoma Ucria. b.

Gramuntia L. p.

ochroleuca L. p.

prolifera L. a.

ucranica L. p.

TRICHERA sylvatica Schrad. p.

COMPOSITAE

ACANTHOSPERMUM humile DC. a.

ACHILLEA Ageratum L. omn. p.

dentifera DC.

filipendulina Lmck.

ligustica All.

odorata L.

Santolina L.

vermiculata Trin.

ACHYROPAPPUS schkuhrioides Link. a.

ACHYROPHORUS maculatus Scop. p.

pinnatifidus DC. b.

ACTINOMERIS alternifolia DC. p.

tetraptera DC. p.

ADENOSTYLE glabra DC. p.

AGATHAEA tenera DC. a.

AGERATUM coeruleum Desf. omn. a.

conyzoides L.

hirtum H. Haf.

ALLOIZONIUM arctotidcum Kunze. a.

AMBERBOA Lippii DC. a.

moschata DC. a.

AMBLYOCARPUM inuloides F. et M. b.

AMBROSIA maritima L. p.

trifida L. a.

AMELLUS annuus W. a.

tridactylus DC. a.

AMMOBIUM alatum R. Br. b.

ANACYCLUS clavatus Pers. a.

radiatus Lois. a.

ANDRYALA varia Lowe. p.

ANTHEMIS aurea Brot. b.

discoidea W. b.

Kitaibelii Spr. b.

maritima L. p.

Marschalliana W. b.

rigescens W. p.

suaveolens Schwaegr. p.

tinctoria L. p.

ARNICA montana L. p. *

ARTEMISIA Abrotanum L. l.

afra Jacq. l.

argentea Herit. l.

austriaca Jacq. p.

biennis W. b.

campestris L. p.

chamaemaculifolia Vill. p.

Dracunculus L. p.

gallica W. p.

laciniata W. p.

maritima L. p.

naronitana Vis. p.

pontica L. p.

procera W. p.

punctata Bess. p.

tanacetifolia All. p.

vulgaris L. p.

ASTER adulterinus W. omn. p.

Amellus L.

hyssopifolius L.

laevis L.

mutabilis L.

Novi Belgii L.

sericeus Vent.

ASTERISCUS aquaticus DC. p.

maritimus DC. p.

ATRACTYLIS cancellata L. a.

BACCHARIS halimifolia L. l.

BALBISIA elongata W. a.

BALSAMITA ageratifolia Desf. p. *

virgata Desf. p. *

BARKHAUSIA cernua Rchnbch. a.

glandulosa Presl. a.

intybacea Spr.

Marschallii C. A. Mey. a.

rubra Moench. a.

taraxacifolia DC. b.

BARKHAUSIA vesicaria *Spr.* b.
 BELLIS annua *L.* a.
 BELLUM crassifolium *Moris.* p.
 minutum L. a.
 BIDENS bipinnata *L.* omn. a.
 foliosa W.
 frondosa L.
 leucantha W.
 parviflora W.
 pilosa L.
 wallichiana DC.
 BIOTIA corymbosa *DC.* omn. p.
 latifolia DC.
 macrophylla DC.
 BOLTONIA glastifolia *Herit.* p.
 BRACHYCOME diversifolia *F. et M.* b.
 BUPHTHALMUM salicifolium *L.* p.
 CACALIA atriplicifolia *L.* omn. p.
 hastata L.
 reniformis Mhlbrg.
 suaveolens L.
 CALENDULA incana *W.* b.
 officinalis L. a.
 CALLIOPSIS bicolor *Rehnbch.* b.
 CALLISTEPHUS chinensis *Nees.* a.
 CARDUUS acanthoides *L.* omn. a.
 argentatus L.
 Argyroa Biv.
 CARLINA corymbosa *L.* p.
 CARPESIMUM cernuum *L.* b.
 CARTHAMUS tinctorius *L.* a.
 CATANANCHE coerulea *L.* b.
 lutea L. a.
 CENIA geminata *Kunze.* a.
 pruinosa DC. a.
 CENTAUREA aspera *L.* p.
 collina L. p.
 Crupinastrum Moris. a. *
 Cyanus L. a.
 dealbata Willd. p.
 elongata Ait. a.
 eriophora L. a.
 gymnocarpa Moris et DeNot. l.
 italica Pers. p.
 melitensis L. a.
 montana L. p.
 orientalis L. p.
 paniculata L. b.
 phrygia L. p.
 procumbens Balb. p.
 ruthenica Lmck. p.
 Scabiosa L. p.
 Verutum L. a.
 CEPHALOPHORA aromatica *Schrad.* a.

CHAMAEPETUCE Casabonae *DC.* b.
 diacantha DC. b.
 stellata DC. a.
 CHONDRILLA juncea *L.* p.
 pauciflora Ledeb. p.
 CHRYSANTHEMUM Segetum *L.* a.
 viscosum Desf. a.
 CHRYSOPSIS villosa *Nutt.* p.
 CICHORIUM divaricatum *Schousb.* b.
 CINERARIA geifolia *L.* l.
 lobata L. p.
 CIRSIUM acaule *All.* omn. p.
 canum All.
 dealbatum Bieb.
 monspessulanum All.
 oleraceum All.
 tuberosum All.
 CNICUS benedictus *Gaertn.* a.
 CONYZA aegyptiaca *Ait.* a.
 chilensis Spr. b.
 COREOPSIS aurea *Ait.* omn. p.
 diversifolia DC.
 lanceolata L.
 senifolia Michx.
 COSMOS bipinnatus *Cav.* a.
 COTULA anthemoides *L.* a.
 coronopifolia L. a.
 CREMOCEPHALUM cernuum *Cass.* a.
 CREPIS alpestris *Tausch.* p.
 blattarioides Vill. p.
 corymbosa Ten. a.
 paludosa Moench. p.
 parviflora Desf. a.
 pungens Desf. a.
 rigida W. Kit. p.
 virens L. b.
 CYNARA Cardunculus *L.* b.
 DAHLIA Cervantesii *Lagasc.* p.
 Merckii Lehm. p.
 DIMORPHOTHECA pluvialis *Moench.* a.
 DIPLOSTEPHIUM amygdalinum *Cass.* p.
 umbellatum DC. p.
 DORONICUM scorpioides *Willd.* p.
 DRACOPIS amplexicaulis *Cass.* a.
 DYSSODIA chrysanthemoides *Lag.* a.
 ECHINACEA serotina *DC.* p.
 ECHINOPS bannaticus *Rochel.* omn. p.
 horridus Desf.
 persicus Fisch.
 sphaerocephalus L.
 ECLIPTA erecta *L.* a.
 EMILIA sonchifolia *DC.* a.
 ENDOPTERA Dioscoridis *DC.* a.
 ERECHTITES carduifolia *DC.* a.

ERECHTITES hieracifolia *Rafin.* a.
ERIGERON acré *L.* p.
 alpinum *L.* p. *
 bellidifolium *W.* p.
 divaricatum *Michx.* a.
 kamtschaticum *DC.* p.
 speciosum *DC.* p.
 Villarsii *Bell.* p.
ESCHENBACHIA ambigua *Moris.* b.
ETHULIA conyzoides *L.* a.
EUPATORIUM adenophorum *Spr.* l.
 altissimum *L.* p.
 aromaticum *L.* p.
 cannabinum *L.* p.
 melissoides *Willd.* p.
 Morisii *H. Patav.* l.
 perfoliatum *L.* p.
 purpureum *L.* p.
 sessilifolium *L.* p.
EVAX pygmaea *Pers.* a.
FELICIA tenella *Nees.* a.
FLAVERIA repanda *Lagasc.* a.
FLORESTINA pedata *Cass.* a.
GAILLARDIA aristata *Pursh.* p.
 Drummondii *DC.* b.
 lanceolata *Michx.* p.
GALACTITES tomentosa *Moench.* b.
GALATELLA dracunculoides *DC.* p.
 punctata *DC.* p.
GAMOLEPIS trifurcata *Less.* l.
GEROPOGON glaber *L.* a.
GNAPHALIUM sylvaticum *L.* p.
GRINDELIA glutinosa *Dunal.* l.
 inuloides *Willd.* p.
 squarrosa *Dunal.* p.
GYMNOSTYLES anthemifolia *Juss.* a.
HEDYPNOIS polymorpha *DC.* a.
HELENIMUM autumnale *L.* p.
 quadridentatum *Labill.* a.
 tenuifolium *Nutt.* a.
HELIANTHUS annuus *L.* a.
 atrorubens *L.* p.
 divaricatus *L.* p.
 erythrocarpus *Bartl.* a.
 Maximiliani *Schrad.* p.
 multiflorus *L.* p.
 petiolaris *Nutt.* p.
 pubescens *Vahl.* p.
HELICHRYSUM angustifolium *DC.* l.
 felinum *Less.* l.
HELIOPSIS buphthalmoides *Dun.* a.
 laevis *Pers.* p.
 scabra *Dun.* p.
HELMINTIA echioides b.

HIERACIUM amplexicaula *L.* omn. p.
 aurantiacum *L.*
 bifurcum *Bieb.*
 bupleurifolium *Lapeyr.*
 bupleuroides *Gmel.*
 foliosum *Küt.*
 Jacquinii *Vill.*
 laevigatum *W.*
 racemosum *W. K.*
 staticefolium *All.* *
HOMOZYNE alpina *Cass.* p. *
HYOSERIS lucida *L.* p.
HYPOCHOERIS Balbisii *Nocca.* b.
 glabra *L.* a.
 radicata *L.* p.
INULA Bubonium *Jacq.* omn. p.
 Conyza *DC.*
 crithmoides *L.*
 Helenium *L.*
 hirta *L.*
 salicina *L.*
 squarrosa *L.*
 thapsoides *Spr.*
 Vaillantii *Vill.*
 viscosa *Desf.*
JURINEA alata *Cass.* b.
 spectabilis *Fisch.* b.
KENTROPHYLLUM lanatum *DC.* a.
KUHNIA Maximiliani *Trev.* p.
LACTUCA augustana *All.* a.
 muralis *Don.* b.
 perennis *L.* p.
 sagittata *W. K.* b.
 Scariola *L.* a.
 stricta *W. K.* a.
 virosa *L.* b.
LAGASCEA mollis *Cav.* a.
LAPPA major *All.* b.
 tomentosa *All.* b.
LASIOSPERMUM pedunculare *Lag.* p.
LASTHENIA glabrata *Lindl.* a.
LEONTODON hastile *L.* p.
 hispidum *L.* p.
LEUCANTHEMUM atratum *DC.* p.
 ircutianum *DC.* p.
 setabense *DC.* a.
LEYSSERA discoidea *Spr.* a.
LIATRIS scariosa *Willd.* p.
 spicata *Willd.* p.
LINOSYRIS vulgaris *DC.* p.
LONAS inodora *Gaertn.* a.
LOPHOCLINIUM Manglesii *Endl.* a.
MACRORHYNCHUS pterocarpus *Fisch.* a.
MADIA mellosa *Molin.* a.

MADIA sativa *Molin.* a.
 MARUTA mixta *Moris.* a.
 nobilis *Moris.* b.
 MATRICARIA disciformis *DC.* p.
 MELAMPODIUM paludosum *H. B.* a.
 rhomboideum *DC.* a.
 MICROLONCHUS salmanticus *DC.* b.
 MICROPUS supinus *L.* a.
 MICRORHYNCHUS nudicaulis *Less.* p.
 MIKANIA scandens *Willd.* p.
 MULGEDIUM Plumieri *DC.* omn. p.
 sibiricum *DC.*
 tataricum *DC.*
 MYRIACTIS Gmelini *DC.* b.
 MYRIOGYNE minuta *Less.* a.
 NEJA falcata *Nees.* l.
 gracilis *Don.* l.
 NOTOBASIS syriaca *Cass.* a.
 OBELISCARIA pinnata *Cass.* p.
 OSTEOSPERMUM moniliferum *L.* l.
 PALLENIS spinosa *Cass.* a.
 PARTHENIUM Hysterophorus *L.* a.
 integrifolium *L.* p.
 PETASITES albus *Gaertn.* p.
 vulgaris *Desf.* p.
 PHAGNALON saxatile *Cass.* l.
 PICRIDIMUM dichotomum *Fisch.* a.
 tingitanum *Desf.* b.
 vulgare *Desf.* a.
 PICRIS hieracioides *L.* p.
 pauciflora *Willd.* a.
 PIQUERIA trinervia *Cav.* p.
 PODOSPERMUM laciniatum *DC.* b.
 POROPHYLLUM linifolium *DC.* l.
 PRENANTHE purpurea *L.* p.
 PTARMICA alpina *DC.* omn. p.
 grandiflora *DC.*
 impatiens *DC.*
 serrata *DC.*
 speciosa *DC.*
 yalésia *DC.*
 vulgaris *DC.*
 PTEROTHECA bifida *Fisch. et Mey.* a.
 PULICARIA dysenterica *Gaertn.* p.
 PYRETHRUM Achilleae *DC.* p.
 caucasicum *W.* p.
 corymbosum *W.* p.
 macrophyllum *W.* p.
 maritimum *Sm.* p.
 multifidum *DC.* p.
 Myconis *Moench.* a.
 niveum *Lagasc.* p.
 roseum *Bieb.* p.
 RHAPONTICUM cynaroides *Less.* p.

RHAPONTICUM pulchrum *F. et Mey.* p.
 scariosum *L.* p.
 RUDBECKIA Drummondii *Paxt.* omn. p.
 hirta *L.*
 speciosa *Wender.* p.
 SANTOLINA Chamaccyparissus *L.* l.
 SCOLYMUS hispanicus *L.* p.
 maculatus *L.* a.
 SCORZONERA eriosperma *Bieb.* omn. p.
 hispanica *L.*
 stricta *Horn.*
 SENECIO abrotanifolius *L.* p.
 aegyptiacus *L.* a.
 alpinus *Scop.* p.
 arabicus *L.* a.
 Cineraria *DC.* l.
 coriaceus *Ait.* p.
 Doria *L.* p.
 elegans *L.* b.
 erucaefolius *L.* p.
 giganteus *Desf.* p.
 jacquinianus *Rchnbch.* p.
 nemorensis *L.* p.
 saracenicus *L.* p.
 triflorus *L.* a.
 umbrosus *W. K.* p.
 verbenaefolius *Jacq.* a.
 vernalis *W. K.* a.
 SERIOLA laevigata *L.* p.
 SERRATULA centauroides *L.* omn. p.
 heterophylla *Desf.*
 quinquefolia *Bieb.*
 radiata *Bieb.*
 tinctoria *L.*
 SILPHIUM erythrocaulon *Bernh.* p.
 perfoliatum *L.* p.
 terebinthinaceum *L. fl.* p.
 ternatum *Retz.* p.
 SOGALGINA trilobata *Cass.* a.
 SOLIDAGO alpestris *W. Kit.* omn. p.
 altissima *L.*
 arguta *Ait.*
 mexicana *L.*
 procera *Ait.*
 Riddellii *Frank.*
 rigida *L.*
 serotina *Ait.*
 Virgaurea *L.*
 SONCHUS oleraceus *L.* a.
 palustris *L.* a.
 SPILANTHE fusca *Desf.* omn. a.
 oleracea *L.*
 repens *Michx.*
 STEVIA canescens *H. B.* p.

STEVIA *Eupatoria W. omn. p.*
glandulifera Schlcht.
ivaefolia W.
lanceolata Lagasc.
ovata Lagasc.
paniculata Lagasc.
purpurea Lagasc.
SYNEDRELLA *nodiflora Gaertn. a.*
TAGETES *bicolor H. Lips. a.*
lucida Cav. p.
tenuifolia Cav. a.
TANACETUM *boreale Fisch. omn. p.*
sibiricum L.
vulgare L.
THRINCIA *hirta DC. p.*
mauritanica Spr. a.
TITHONIA *tagetiflora Desf. a.*
TOLPIS *altissima Pers. omn. a.*
barbata Gaertn.
coronopifolia Spr.
umbellata Balb.
TRAGOPOGON *brevirostre DC. p.*
*porrifolius L. p. **
TYRIMNUS *leucographus Cass. a.*
UROSPERMUM *capense Spr. b.*
VERNONIA *angustifolia Michx. p.*
anthelmintica W. a.
praealta DC. p.
profuga DNtrs. l.
XANTHIUM *echinatum Murr. a.*
strumarium L. a.
XERANTHEMUM *inapertum W. a.*
ZACINTHA *verrucosa Gaertn. a.*
ZINNIA *elegans Jacq. omn. a.*
multiflora L.
pauciflora L.
tenuiflora Jacq.
verticillata Andr.

CAMPANULACEAE

ADENOPHORA *coronata A. DC. omn. p.*
liliifolia Ledeb.
verticillata Fisch.
CAMPANULA *bononiensis L. p.*
Erinus L. a.
grandis F. et Mey. p.
lamiifolia Bieb. p.
persicifolia L. p.
punctata Lmck. p.
pyramidalis L. b.
spicata L. b.
CODONOPSIS *lurida Lindl. p.*

JASIONE *montana L. b.*
perennis Lmck. p.
PHYTEUMA *canescens W. K. omn. p.*
Halleri All.
orbiculare L.
Scheuchzeri All.
scorzoneraefolium Vill.
SPECULARIA *hybrida A. DC. a.*
perfoliata A. DC. a.
TRACHELIUM *coeruleum L. p.*
WAHLENBERGIA *gracilis A. DC. a.*
lobelioides A. DC. a.

LOBELIACEAE

ENCHYSIA *erinoides Presl. a.*
ISOTOMA *longiflora Presl. p.*
LAURENTIA *Michellii DC. a.*
LOBELIA *cliffortiana L. a.*
inflata L. a.
nicotianacfolia Heyn. p.
syphilitica L. p.

GOODENIACEAE

GOODENIA *grandiflora Sims. p.*

STYLIDIACEAE

STYLIDIUM *fruticosum R. Br. l.*

ERICACEAE

ERICA *lateralis W. omn. l.*
taxifolia Ait.
urceolaris Berg.
vagans L.

PRIMULACEAE

ANDROSACE *carnea L. p.*
elongata L. a.
filiformis Retz. a.
lactiflora Fisch. a.
maxima L. a.
septentrionalis L. b.
CYCLAMEN *hederacfolium Ait. p.*
DODECATHEON *Meadia L. p.*
LUBINIA *mauritiana Spr. b.*

LYSIMACHIA decurrens *Forsk.* b.
 punctata *L.* p.
 thyrsoflora *L.* p.
 verticillata *Bieb.* p.
 vulgaris *L.* p.
 PRIMULA elatior *Jacq.* p.
 suaveolens *Bertol.* p.
 SAMOLUS Valerandi *L.* b.

MYRSINACEAE

ARDISIA crenulata *Vent.* l.
 solanacea *Roxb.* l.
 MYRSINE africana *L.* l.

EBENACEAE

DIOSPYROS Lotus *L.* l.
 virginiana *L.* l.
 ROYENA lucida *L.* l.
 VISNEA Mocanera *L. fil.* l.

STYRACACEAE

HALESIA diptera *L.* l.
 tetraptera *L.* l.
 STYRAX officinale *L.* l.

OLEACEAE

CHIONANTHUS virginica *L.* l.
 β *maritima.*
 FRAXINUS oxycarpa *Willd.* l.
 LIGUSTRUM japonicum *Thunb.* l.
 OLEA undulata *Jacq.* l.
 SYRINGA josikaea *Jacq. fil.* l.

JASMINACEAE

JASMINUM fruticans *L.* l. *

APOCYNACEAE

AMSONIA latifolia *Mx.* p.
 APOCYNUM androsaemifolium *L.* p.
 VINCA rosea *L.* l.

ASCLEPIADACEAE

ASCLEPIAS amoena *L.* p.
 consanguinea *Kunze.* p.
 curassavica *L.* l.
 linifolia *Lag.* l.
 syriaca *L.* p.
 CYNANCHUM fuscatum *Link.* p.
 GOMPHOCARPUS fruticosus *R. Br.* l.
 STAPELIA grandiflora *Mass.* l.
 obliqua *W.* l.
 TWEEDIA coerulea *Don.* p.
 floribunda *Lindl.* p.

GENTIANACEAE

CHIRONIA linoides *L.* l.
 peduncularis *Lindl.* l.
 ERYTHRAEA Centaurium *Pers.* a.
 GENTIANA campestris *L.* a. *
 lutea *L.* p.
 macrophylla *Pall.* p.
 SWERTIA perennis *L.* p.

PEDALIACEAE

MARTYNIA proboscidea *Glox.* a.
 SESAMUM orientale *L.* a.

CYRTANDRACEAE

STREPTOCARPUS Rexii *Lindl.* p.

HYDROPHYLLACEAE

NEMOPHILA liniflora *Fisch.* a.
 PHACELIA bipinnatifida *Michx. omn. a.*
 congesta *Hook.*
 fimbriata *Michx.*
 tanacetifolia *Benth.*
 vitifolia *Paxt.*

POLEMONIACEAE

CANTUA pyrifolia *Juss.* l.
 COLLONIA coccinea *Lehm. omn. a.*
 grandiflora *Dougl.*
 heterophylla *Hook.*
 linearis *Nutt.*

GILIA achilleaeifolia *Benth.* omn. a.
 bicolor *R. P.*
 capitata *Dougl.*
 Leptosiphon *Steud.*
 minutiflora *Benth.*
 parviflora *Spr.*
 splendens *H. Monac.*
 tricolor *Benth.*

HOITZIA coccinea *Cav.* l.

PHLOX carolina *L.* omn. p.
 listoniana *Sweet*
 paniculata *L.*

POLEMONIUM boreale *Adans.* omn. p.
 gracile *W.*
 lacteum *Lehm.*
 pulcherrimum *Hook.*
 Richardsonii *Graham.*
 virginicum *Pursh.*

CONVOLVULACEAE

CONVOLVULUS elongatus *W.* a.
 farinosus *L. a.*
 Hermanniae *Herit.* p.
 pentapetaloides *L. a.*
 sabatius *Viviani.* p.
 sculus *L. a.*
 tricolor *L. a.*

IPOMOEA coccinea *L.* omn. a.
 curassavica *Balb.*
 hederacea *L.*
 hepaticaeifolia *L.*
 leucantha *Jacq.*
 montana *Moricand.*
 pendula *R. Br.*
 Pes-tigridis *L.*
 purpurea *Lmck.*
 quinata *R. Br.*
 scabra *Forsk.*
 sibirica *Jacq.*
 solanifolia *L.*
 violacea *L.*

QUAMOCLIT vulgaris *Chois.* a.

BORRAGINACEAE

AMSINCKIA angustifolia *Lehm.* a.

ANCHUSA angustifolia *L. b.*
 italica *Retz.* b.
 Milleri *W.* a.
 officinalis *L. b.*
 sempervirens *L. p.*

BORRAGO officinalis *L. b.*

BOTHRYOSPERMUM tenellum *F. et M.* a.

BUGLOSSITES laxiflora *Moris.* p.

CERINTHE minor *L. b.*

CYNOGLOSSUM canescens *W.* a.

cheirifolium *L. p. **

longiflorum *Lehm.* p.

officinale *L. p.*

ECHIUM calycinum *Viv.* b. *¹

grandiflorum *Desf.* b.

pyrenaicum *Desf.* b.

tenue *Roth.* a.

EHRETIA tinifolia *L. l.*

HELIOTROPIMUM curassavicum *L. a.*

supinum *L. a.*

LITHOSPERMUM officinale *L. p.*

MYOSOTIS alpestris *Schmidt.* p. *

NONEA rosea *Link.* a.

OMPHALODES linifolia *Moench.* a.

ONOSMA echioides *L. a.*

SYMPHYTUM echinatum *Ledeb.* p.

TIARIDIUM indicum *L. a.*

TOURNEFORTIA heliotropioides *Hook.* p.

HYDROLEACEAE

WIGANDIA urens *G. Don.* l.

SOLANACEAE

ATROPA Belladonna *L. p.*

CAPSICUM bicolor *Jacq.* l.

cerasiforme *W.* a.

conicum *Lmck.* a.

frutescens *L. l.*

grossum *W.* a.

pendulum *W.* a.

CESTRUM corymbosum *Schlecht.* omn. l.

diurnum *L.*

fasciculatum *Miers.*

odontospermum *Jacq.*

roseum *H. B.*

DATURA ceratocaula *Jacq.* omn. a.

fastuosa *L.*

ferox *L.*

laevis *L.*

Metel *L.*

Stramonium *L.*

Tatula *L.*

HYOSCYAMUS albus *L. a.*

niger *L. a.*

HYOSCIAMUS *orientalis Bieb. p.*
pusillus L. a.
 MANDRAGORA *vernalis Bertol. p.*
 NICANDRA *physalodes Gaertn. a.*
 NICOTIANA *fragens Bernh. a.*
fruticosa L. l.
glauc Hook. l.
macrophylla Spr. a.
paniculata L. a.
rustica L. a.
 NOLANA *atriplicifolia G. Don. a.*
prostrata L. a.
 PHYSALIS *Alkekengi L. p.*
angulata L. a.
barbadensis Jacq. a.
ixocarpa Brot. a.
peruviana L. p.
pruinosa L. a.
pubescens L. a.
 SOLANUM *aethiopicum L. a.*
auriculatum L. l.
Balbisii Dunal. l.
laciniatum Ait. p.
oporinum W. l.
pyracanthum Lmck. l.
radicans L. fil. p.

SCROPHULARIACEAE

ANARRHINUM *bellidifolium W. a.*
 ANTIRRHINUM *Asarina L. p.*
calycinum Vent. a.
montevиденсе Mart. p.
 BROWALIA *demissa L. a.*
elata L. a.
 BUDDLEYA *brasiliensis Jacq. f. omn. l.*
lindleyana Hort.
saligna W.
salvifolia Lmck.
spicata R. P.
 CALCEOLARIA *pinnata L. a.*
 CHELONE *glabra L. p.*
 DIGITALIS *grandiflora Lmck. omn. p.*
lanata Ehrh.
micrantha Roth.
purpurea L.
Thapsi L.
 ERINUS *alpinus L. p.*
 HORNEMANNIA *bicolor W. a.*
 LINARIA *aegyptiaca Desf. a.*
*arvensis Desf. a. **
bipartita W. a.
bipunctata Steud. a.

LINARIA *capraria Moris et DeNot. p.*
cirrhusa W. a.
delphinoides Gay. a.
genistaeifolia Mill. p.
juncea DC. a.
lusitanica Spr. p.
organifolia DC. p.
pilosa DC. p.
purpurea Mill. p.
repens Steud. p.
*rubrifolia DC. a. **
*simplex DC. a. **
triphylla W. a.
versicolor Moench. a.
vulgaris Mill. p.
 MAURANDIA *semperflorens Jacq. a.*
 MIMULUS *alatus Ait. omn. p.*
cardinalis Lindl.
ringens L.
 PAULOWNIA *imperialis Sieb. et Zucc. l.*
 PEDICULARIS *gyroflexa Vill. p. **
 PENTSTEMON *campanulatum W. omn. p.*
confertum Dougl.
gracile Nutt.
hirsutum W.
macheyanum Know et West.
pulchellum Lindl.
Richardsonii Dougl.
roseum G. Don.
venustum Dougl.
 SCHIZANTHUS *pinnatus R. Br. a.*
 SCROPHULARIA *aquatica L. p.*
betonicaefolia L. p.
canina L. p.
glandulosa Kit. p.
Herminii Hoffmsg. p.
lyrata W. p.
nodosa L. p.
peregrina L. a.
Seckellii Spr. p. ?
Scorodonia L. p.
smyrnaea Boiss. p.
trifoliata L. p.
 STEMODIA *chilensis Benth. p.*
 VERBASCUM *Blattaria L. b.*
nigrum L. p.
*rotundifolium Tenor. b. **
sinuatum L. b.
 VERONICA *alpina L. p.*
Beccabunga L. p.
Crista-galli Stev. a.
Cymbalaria Bertol. a.
fruticulosa L. l. p.
gentianoides Vahl. p.

VERONICA latifolia *L. p.*
 maritima *L. p.*
 officinalis *L. p.*
 paniculata *Pall. p.*
 ruthenica *Fisch. p.*
 saxatilis *L. p.*
 serpyllifolia *L. p.*
 sibirica *L. p.*
 spicata *L. p.*
 spuria *L. p.*
 Teucrium *L. p.*
 urticaefolia *L. p.*

ACANTHACEAE

ACANTHUS spinosus *L. p.*
BARLERIA cristata *L. l.*
CROSSANDRA infundibuliformis *Nees. l.*
GENDARUSSA furcata *Nees. l.*
RUELLIA ovata *Cav. p.*

VERBENACEAE

CALLICARPA americana *L. l.*
 cana *L. l.*
DURANTA microphylla *Desf. l.*
 Plumieri *L. l.*
LANTANA aculeata *L. omn. l.*
 involucrata *L.*
 lilacina *Desf.*
 nivea *Vent.*
 stricta *Sw.*
 trifolia *L.*
LIPPIA asperifolia *Rich. omn. l.*
 montevidensis *Spr.*
 purpurea *Jacq.*
 repens *Spr.*
PRIVA lappulacea *Pers. p.*
VERBENA Aubletia *Jacq. b.*
 bonariensis *L. p.*
 caroliniana *L. p.*
 elegans *H. B. p.*
 erinoides *Lmck. a.*
 hastata *L. p.*
 supina *L. a.*
 venosa *Gill. et Hook. p.*
VITEX incisa *Lmck. l.*

LABIATAE

AJUGA orientalis *L. p.*
AMETHYSTEA coerulea *L. a.*

BALLOTA hispanica *Benth. p.*
 nigra *L. p.*
CALAMINTHA Clinopodium *Moris. p.*
 grandiflora *Moench. p.*
 Nepeta *Link et Hoffm. p.*
 repens *Benth. p.*
COLEUS arabicus *Benth. l.*
 Persoonii *Benth. l.*
DRACOCEPHALUM austriacum *L. p.*
 canescens *L. a.*
 Moldavica *L. a.*
 nutans *L. p.*
 peltatum *L. a.*
 peregrinum *L. p.*
ELSHOLTZIA cristata *Willd. a.*
EREMOSTACHYS laciniata *Bunge. p.*
GALEOBDALON luteum *Sm. p.*
GALEOPSIS Tetrahit *L. a.*
HORMINUM pyrenaicum *Jacq. p.*
HYSSOPUS officinalis *L. p.*
LAMIUM album *L. omn. p.*
 garganicum *L.*
 longiflorum *Tenor.*
 maculatum *L.*
 Orvala *L.*
LAVANDULA multifida *L. b.*
 Stoechas *L. l.*
LEUCAS aspera *Spr. a.*
 indica *R. Br. a.*
LOPHANTHUS anisatus *Benth. omn. p.*
 nepetoides *Benth.*
 scrophulariaefolius *Benth.*
LYCOPUS europaeus *L. p.*
 exaltatus *L. fil. p.*
MAJORANA hortensis *Moench. l.*
 Onites *Benth. p.*
MARRUBIUM apulum *Ten. omn. p.*
 astracanicum *Jacq.*
 candidissimum *L.*
 peregrinum *L.*
 vulgare *L.*
MELISSA officinalis *L. p.*
MELITTIS Melissophyllum *L. p.*
MENTHA aquatica *L. omn. p.*
 arvensis *L.*
 cervina *L.*
 crispa *L.*
 piperita *L.*
 Pulegium *L.*
 Requiemi *Benth.*
 rotundifolia *L.*
 sylvestris *L.*
MICROMERIA filiformis *Benth. p.*
 gracca *Benth. p.*

MICROMERIA *juliana Benth. p.*
MOLUCELLA *laevis L. a.*
 spinosa L. b.
MONARDA *aristata Nutt. p.*
 fistulosa L. p.
NEPETA *botryoides Ait. omn. p.*
 camphorata Boiss.
 Cataria L.
 cyanea Stev.
 grandiflora Bieb.
 macrantha Fisch.
 nuda L.
OCYUM *americanum L. a.*
 minimum L. a.
 sanctum L. a.
 Selloi Benth. p.
ORIGANUM *vulgare L. p.*
PERILLA *ocimoides L. a.*
PHLOMIS *alpina Pall. p.*
 fruticosa L. l.
 Herba-venti L. p.
 samia L. p.
 tuberosa L. p.
PHYSOSTEGIA *virginiana Benth. p.*
PRUNELLA *grandiflora L. p.*
 vulgaris L. p.
PYCNANTHEMUM *lanceolatum Pursh. p.*
SALVIA *Aethiopis L. b.*
 filamentosa H. Modic. l.
 glutinosa L. p.
 grandiflora Ettling. p.
 hirsuta Jacq. p.
 hispanica L. a.
 Horminum L. b.
 lyrata L. p.
 micrantha Vahl. p.
 nilotica Murr. p.
 Sclarea L. b.
 sylvestris L. p.
 Verbenaca L. p.
 verticillata L. p.
 virgata Ait. p.
SATUREJA *hortensis L. a.*
 intermedia Fisch. p.
 montana L. l.
 mutica Fisch. p.
SCUTELLARIA *alpina L. omn. p.*
 Columnae All.
 lateriflora L.
 lupulina L.
 macrantha Fisch.
 pallida Bieb.
 peregrina Link. p.
SIDERITIS *canariensis L. l.*

SIDERITIS *romana L. a.*
 scordioides L. l.
STACHYS *arabica Horn. a.*
 arenaria Vahl. p.
 arvensis L. a.
 Betonica Benth. p.
 circinnata Herit. p.
 corsica Pers. a.
 densiflora Benth. p.
 germanica L. p.
 grandiflora Benth. p.
 intermedia Ait. p.
 lanata Jacq. p.
 maritima L. p.
 palustris L. p.
 recta L. p.
 setifera C. A. Mey. p.
 sylvatica L. p.
TEUCRIUM *Arduini L. l.*
 Chamaedrys L. p.
 cubense L. p.
 euganeum Vis. p.
 flavum L. l.
 hircanicum L. p.
 lusitanicum Lmck. p.
 Marum L. l.
 massiliense L. p.
 microphyllum Desf. l.
 orientale L. p.
 Polium L. l.
 Pseudo-scorodonia Desf. p.
 Scordium L. p.
 Scorodonia L. p.
THYMUS *capitatus Link. l.*
ZIZIPHORA *capitata L. a.*
 tenuior L. a.

GLOBULARIACEAE

GLOBULARIA *Alypum L. l.*
 nudicaulis L. p.
 vulgaris L. p.

PLUMBAGINACEAE

ARMERIA *alliacea W. omn. p.*
 alpina W.
 denticulata Bertol.
 latifolia W.
 *splendens Webb. **
 vulgaris W.
PLUMBAGO *europaea L. p.*

- PLUMBAGO** *micrantha* Ledeb. a.
 zeylanica L. l.
STATICE *auriculaefolia* Vahl. omn. p.
 latifolia Sm.
 Limonium L.
 pubescens DC.

PLANTAGINACEAE

- PLANTAGO** *afra* L. l.
 amplexicaulis Cav. b.
 Bellardi All. a.
 Coronopus L. b.
 crassa W. p.
 eschscholtziana F. et Mey. p.
 hookeriana Fisch. a.
 indica L. a.
 major L. p.
 Psyllium L. a.
 pumila L. a.
 salsa Bieb. p.
 saxatilis Bieb. p.
 sparsiflora Michx. p.
 squarrosa Murr. a.
 virginica L. a.

PHYTOLACCACEAE

- MICROTEA** *mayparensis* G. Don. a.
PHYTOLACCA *decandra* L. omn. p.
 octandra L.
 stricta Hoffm.
RIVINA *humilis* L. omn. l.
 laevis L.
 purpurascens L.

SALSOLACEAE

- ATRIPLEX** *hortensis* L. omn. a.
 laciniata L.
 littoralis L.
 oblongifolia W. K.
 rosea L.
 virgata Roth.
AXYRIS *hydrida* L. a.
BETA *maritima* L. b.
 trigyna W. K. p.
BLITUM *Bonus-Henricus* C. A. Mey. p.
 chenopodioides Lmck. a.
CHENOPODIUM *album* L. a.
 ambrosioides L. a.

- CHENOPODIUM** *anthelminthicum* L. p.
 Atriplicis L. a.
 Botrys L. a.
 ficifolium Sm. a.
 foetidum Schrad. a.
 glaucum L. a.
 leucospermum Schrad. a.
 patulum Roth. a.
 Quinoa W. a.
CORISPERMUM *Marschallii* Stev. a.
CYCLOLOMA *platyphyllum* Moq. a.
KOCHIA *criophora* Schrad. omn. a.
 hyssopifolia Roth.
 muricata Schrad.
 scoparia Schrad.
MONOLEPIS *trifida* Schrad. a.
SALSOLA *Kali* L. a.
 Tragus L. a.
TELOXYS *aristata* Moq. a.

BASELLACEAE

- BASELLA** *rubra* L. a.

AMARANTACEAE

- ACNIDA** *cannabina* L. a.
AERVA *brachiata* Mart. a.
ALTERNANTHERA *ficoides* R. Br. a.
 spinosa R. S. l.
AMARANTHUS *aureus* Dietr. omn. a.
 caudatus L.
 esculentus H. Bonn.
 hecticus W.
 incomptus W.
 melancholicus L.
 pendulus H. Genev.
 polygonoides L.
 rigidus Schult.
 tricolor L.
 tristis L.
CELOSIA *argentea* L. omn. a.
 cristata L.
 margaritacea L.
 trigyna L.
CHAMISSOA *albida* Mart. a.
DEERINGIA *celosioides* B. Br. l.
GOMPHRENA *decumbens* Jacq. a.
 globosa L. a.
HAPLOTHECA *interrupta* Nutt. p.

NYCTAGINACEAE

MIRABILIS Jalapa *L. a.*
 OXYBAPHUS glabrifolius *Vahl. p.*

POLYGONACEAE

EMEX spinosus *Cambess. a.*
 POLYGONUM alpinum *All. p. **
 Bistorta *L. p.*
 cymosum *Desf. p.*
 emarginatum *Roth. a.*
 Fagopyrum *L. a.*
 Hydropiper *L. a.*
 lapathifolium *L. a.*
 orientale *L. a.*
 Persicaria *L. a.*
 serrulatum *Lagasc. a. **
 virginianum *L. p.*
 RHEUM australe *Don. omn. p.*
 caspicum *W.*
 crispum *Andr.*
 Rhaponticum *L.*
 tataricum *L.*
 RUMEX acutus *L. p.*
 aegyptiacus *L. a.*
 bucephalophorus *L. a.*
 chrysocarpos *Moris. p.*
 confertus *W. p.*
 dentatus *L. a.*
 Gmelini *Tartsch. p.*
 luxurians *L. fil. p.*
 Patientia *L. p.*
 persicarioides *L. a.*
 pulcher *L. p.*
 roseus *L. a.*
 salicifolius *Weinm. p.*
 sanguineus *L. p.*
 scutatus *L. p.*
 thyrsoides *Desf. p. **
 verticillatus *L. p.*
 vesicarius *L. a.*

THYMELAEACEAE

DAPHNE Mezcreum *L. l.*
 PIMELEA humilis *R. Br. omn. l.*
 hypericina *Hook.*
 spectabilis *Lindl.*

PROTEACEAE

HAKEA saligna *R. Br. l.*

SAURURACEAE

SAURURUS cernuus *L. p.*

BEGONIACEAE

BEGONIA diptera *Dryand. l.*
 Dregei *Otto. l.*
 grandis *Dryand. l.*
 heracleifolia *Chamss. l.*
 martiana *Link. p.*
 peltifolia *Schott. l.*
 ulmifolia *W. l.*

EUPHORBIACEAE

ACALYPHA indica *L. a.*
 rubra *W. p.*
 EUPHORBIA amygdaloides *L. p.*
 deflexa *Sibth et Sm. p.*
 dentata *Michx. a.*
 esula *L. p.*
 geniculata *Orteg. a.*
 Ipecachuanha *L. p.*
 picta *Jacq. p.*
 pinea *L. p.*
 Pithyusa *L. p.*
 platyphylla *L. b.*
 pterococca *Brot. a. **
 pubescens *Vahl. p.*
 saxatilis *Jacq. p.*
 trapezoidalis *Vivian. a.*
 trinervia *Boiss. p.*
 undulata *Bieb. p.*
 GEBLERA suffruticosa *Fisch. l.*
 MERCURIALIS zeyheriana *Kunze. p.*
 PHYLLANTHUS cantoniensis *Hornm. a.*
 juglandifolius *W. l.*
 Niruri *L. a.*
 RICINUS africanus *W. a.*
 inermis *Jacq. a.*

CYNOCRAMBACEAE

THELIGONUM Cynocrambe *L. a.*

URTICACEAE

BOEHMERIA spicata *Thunb. l.*
 FORSKOHLIA angustifolia *Retz. a.*
 tenacissima *L. a.*

PARIETARIA cretica *L. a.*
 judaica *L. p.*
URTICA atrovirens *Req. p.*
 cannabina *L. p.*
 capitata *L. p.*
 convexa *Hornm. a.*
 Dodartii *L. a.*
 pilulifera *L. a.*

JUGLANDACEAE

CARYA alba *Nutt. l.*
 aquatica *Nutt. l.*
JUGLANS cinerea *L. l.*
 nigra *L. l.*
PTEROCARYA caucasica *C. A. Mey. l.*

ULMACEAE

CELTIS australis *L. omn. l.*
 occidentalis *L.*
 Tournefortii *Lmck.*

CORYLACEAE

CORYLUS americana *Michx. omn. l.*
 laciniata *H. Angl.*
 rubra *H. Angl.*
 tubulosa *W.*

MORACEAE

MORUS rubra *L. l.*

BETULACEAE

ALNUS barbata *C. A. Mey. omn. l.*
 cordifolia *Tenor.*
 incana *W.*
BETULA nigra *L. l.*
 pumila *L. l.*

PINACEAE

JUNIPERUS chinensis *L. omn. l.*
 excelsa *Bieb.*
 nana *Willd.*
 virginiana *L.*
THUJA australis *Bosc. omn. l.*
 filiformis *H. Angl.*
 nepalensis *Lodd.*
 occidentalis *L.*
 orientalis *L.*

TAXACEAE

TAXUS baccata *L. l.*
 hibernica *Hook. l.*

MONOCOTYLEDONES

ARACEAE

ARUM crinitum *Ait. omn. p.*
 italicum *Mill.*
 triphyllum *L.*
POTHOS violacea *Sw. l.*
ZANTEDESCHIA aethiopica *Spr. p.*

ALISMACEAE

ALISMA Plantago *L. p.*

BUTOMACEAE

BUTOMUS umbellatus *L. p.*

ORCHIDACEAE

GYMNADENIA conopsea *Rich. p.*

CANNACEAE

CANNA cubensis *Bouchè. omn. p.*
 exigua *H. Berol.*
 flaccida *Rosc.*
 laeta *Roxb.*
 lagunensis *Lindl.*
 leptochila *Rosc.*
 lutea *Ait.*
 orientalis *Rosc.*
 Sellowii *H. Berol.*
 speciosa *Rosc.*

CANNA pallida *Rosc.* omn. p.
 patens *Rosc.*
 tenuiflora *Bouchè.*
THALIA dealbata *Fras.* p.

IRIDACEAE

ANTHOLYZA aethiopica *L.* p.
 Cunonia *L.* p.
BABIANA tubiflora *Ker.* p.
 villosa *Ker.* p.
GLADIOLUS byzantinus *Mill.* omn. p.
 communis *L.*
 cuspidatus *Jacq.*
 gracilis *Jacq.*
 natalensis *Reinw.*
 tristis *L.*
IRIS acuta *Willd.* omn. p.
 alata *Lmck.*
 dichotoma *L. f.*
 foetidissima *L.*
 fugax *Pers.*
 Guldenstaedtia *Bieb.*
 Hookeri *Penny.*
 kamwonensis *Wallich.*
 maritima *L.*
 notha *Bieb.*
 orientalis *Thunb.*
 Pseudacorus *L.*
 sibirica *L.*
 sordida *Retz.*
 subbiflora *Brot.*
 tuberosa *L.*
IXIA africana *L.* omn. p.
 flexuosa *L.*
 maculata *L.*
 quadrangula *Delar.*
 ramiflora *Tenor.*
LAPEYROUSIA corymbosa *Ker.* p.
MORAEA candolleana *Spr.* p.
SISYRINCHIUM tenuifolium *H. B.* p.
SPARAXIS grandiflora *Ker.* p.
TRICHONEMA Bulbocodium *Ker.* p.
 cruciatum *Ker.* p.
 ramiflorum *Sweet.* p.
TRITONIA crocata *Ait.* omn. p.
 deusta *Ker.*
 lineata *Ker.*
 miniata *Ait.*
 pallida *Ker.*
 Securigera *Ker.*

AMARYLLIDACEAE

AGAVE geminiflora *Brande.* l.
AMARYLLIS chloroleuca *Ker.* omn. p.
 nivea *Schult.*
 tubispatha *Herit.*
LEUCOJUM autumnale *L.* p.
 hyemale *DC.* p.

BROMELIACEAE

BILLBERGIA zebrina *Lindl.* p.

LILIACEAE

ALBUCA fastigiata *Dryand.* p.
 minor *L.* p.
ALLIUM acre *Presl.* omn. p.
 albidum *Fisch.*
 Ampeloprasum *L.*
 Chamaemoly *L.*
 Cupani *Rafin.*
 fistulosum *L.*
 flavum *L.*
 fragrans *Vent.*
 glaucum *Schrad.*
 luteolum *H. Taur.*
 Moly *L.*
 moschatum *L.*
 nacissiflorum *W.*
 neapolitanum *Cyrill.*
 roscum *L.*
 saxatile *Bieb.*
 Schoenoprasum *L.*
 sibthorpiatum *Schultz.*
 sphaerocephalum *L.*
 striatum *Jacq.*
 subhirsutum *L.*
 triquetrum *L.*
 vernale *Tineo*
 vineale *L.*
ALOE altilinea *Schult.* omn. p.
 obscura *Mill.*
 trigona *Salm.*
ANTHERICUM Liliago *L.* p.
ARTHROPODIUM minus *R. Br.* p.
ASPHODELUS creticus *Lmck.* omn. p.
 luteus *L.*
 ramosus *L.* *
BULBINE annua *W.* a.
CONANTHERA Echeandia *Pers.* p.
CONVALLARIA multiflora *L.* p.
FUNKIA ovata *Spr.* p.
 sieboldiana *Lodd.* p.

- HEMEROCALLIS flava *L. p.*
 graminea *Andr. p.*
 HYACINTHUS amethystinus *L. omn. p.*
 dubius *Guss.*
 romanus *L.*
 LACHENALIA bicolor *Lodd. p.*
 tricolor *Thunb. p.*
 LILIUM candidum *L. omn. p.*
 Catesbaei *Walt.*
 croceum *Chaix.*
 Martagon *L.*
 superbum *L.*
 tigrinum *Gawl.*
 MUSCARI commutatum *Guss. p.*
 comosum *Mill. p.*
 ORNITHOGALUM comosum *L. omn. p.*
 Ecklonii *Fisch. Mey.*
 gramineum *Sims.*
 scilloides *Jacq.*
 RUSCUS Hypophyllum *L. l.*
 racemosus *L. l.*
 SCILLA autumnalis *L. omn. p.*
 campanulata *Ait.*
 cupaniana *Guss.*
 nutans *Sm.*
 peruviana *L.*
 SMILACINA racemosa *Desf. p.*
 UROPETALUM hyacinthoides *Spr. p.*
 serotinum *Ker. p.*
 VELTHEIMIA viridiflora *Jacq. p.*

DIOSCOREACEAE

- DIOSCOREA brasiliensis *W. p.*
 bulbifera *L. p.*

COLCHICACEAE

- VERATRUM nigrum *L. p.*

JUNCACEAE

- JUNCUS acutiflorus *Ehrh. omn. p.*
 capitatus *Weig.*
 fuscoater *Schreb.*
 pallidus *R. Br.*
 tenuis *W.*
 LUZULA maxima *W. omn. p.*
 nivea *Desv.*
 pediformis *DC.*
 pilosa *W.*

COMMELINACEAE

- COMMELINA angustifolia *Michx. omn. p.*
 caroliniana *Walt.*
 longicaulis *Jacq.*
 scapigera *Mart.*
 TRADESCANTIA erecta *Jacq. p.*

CYPERACEAE

- CAREX arenaria *L. omn. p.*
 atrata *L.*
 baldensis *L. omn. p.*
 cristata *Schwntz.*
 cyperoides *L.*
 glauca *Scop.*
 hordeiformis *Whlbrg.*
 leiorrhyncha *C. A. Mey.*
 maxima *Scop.*
 melanantha *C. A. Mey.*
 microcarpa *Bertol.*
 multiflora *Whlbrg.*
 muricata *L.*
 nitida *Host.*
 Pseudocyperus *L.*
 repens *Bell.*
 scoparia *Schkr.*
 stellulata *Good.*
 tomentosa *L.*
 vulpina *L.*
 vulpinoidea *Michx.*
 CYPERUS alopecuroides *Rottb. p.*
 alternifolius *L. p.*
 auricomus *Sieb. p.*
 brunneus *Sw. a.*
 congestus *Vahl. a.*
 erythraeus *Schrad. a.*
 mucronatus *Retz. a.*
 pannonicus *L. a.*
 Papyrus *L. p.*
 patulus *Kit. p.*
 textilis *Thunb. p.*
 ERIOPHORUM alpinum *L. p. **
 angustifolium *Dicks. p. **
 HOLOSCHOENUS atrovirens *Link. p.*
 MARISCUS elatus *Vahl. p.*
 SCHOENUS nigricans *L. p.*
 SCIRPUS mucronatus *L. p.*

GRAMINACEAE

- AGROSTIS dispar *Michx. omn. p.*
 laxiflora *Richards.*

AGROSTIS rupestris *All.*
 vulgaris With.
 ALOPECURUS bulbosus *L. p.*
 ANDROPOGON Ischaemum *L. p.*
 ARISTIDA gigantea *L. f. a.*
 ARRHENATHERUM avenaceum *Beauv. p.*
 AVENA fatua *L. a.*
 fragilis L. a.
 pratensis L. p.
 BECKMANNIA erucaciformis *Host. p.*
 BRIZA maxima *L. a.*
 BROMUS matritensis *L. a.*
 pendulinus Schrad. a.
 pubescens Mhlbrg. p.
 Schraderi Kunth. p.
 CALAMAGROSTIS Epigejos *Roth. p.*
 varia Trin. p.
 CENCHRUS echinatus *L. omn. a.*
 laevigatus Trin.
 tribuloides L.
 CHLORIS ciliata *Sw. omn. a.*
 meccana Hochst.
 radiata W.
 CHRYSOPOGON Gryllus *Trin. p.*
 CHRYSURUS cynosuroides *Pers. a.*
 CINNA mexicana *Beauv. p.*
 sobolifera Link. p.
 COIX Lacrima *L. a.*
 CORNUCOPIAE cucullatum *L. a.*
 CORYCARPUS arundinaceus *Zea. p.*
 CRITHO Aegiccras *E. Mey. a.*
 CRYPsis aculeata *Ait. a.*
 DACTYLOCTENIUM mucronatum *W. a.*
 DACTYLIS glomerata *L. p.*
 DESCHAMPSIA caespitosa *Beauv. p.*
 juncea Beauv. p.
 EHRHARTA panicea *Sm. p.*
 ELEUSINE Coracana *Pers. omn. a.*
 indica Lmck.
 oligostachya Link.
 ELYMUS carolinianus *Walt. omn. p.*
 glaucifolius Mhlbrg.
 virginicus L.
 ERAGROSTIS abyssinica *Link. a.*
 aegyptiaca Link. a.
 ciliaris Kunth. a.
 elongata Jacq. p.
 peruviana Trin. a.
 pilosa Beauv. a.
 plumosa Link. a.
 FESTUCA divaricata *Desf. a.*
 frigida Kunth. p.
 glauca Lmck. p.
 heterophylla Haenk. p.

FESTUCA ovina *L. p.*
 rubra L. p.
 *spadicea Gouan. p. **
 tenella W. a.
 unioloides Kunth. p.
 HORDEUM bulbosum *L. p.*
 distichon L. a.
 vulgare L. a.
 KOELERIA cristata *Pers. p.*
 setacea DC. p.
 LEPTOCHLOA arabica *Kunth. a.*
 domingensis Link. a.
 polystachya Kunth. p.
 LEPTURUS incurvatus *Trin. omn. a.*
 pannonicus Kunth.
 subulatus Kunth.
 LOLIUM temulentum *L. a.*
 MELICA pyramidalis *Lmck. p.*
 uniflora Retz. p.
 MILIUM effusum *L. p.*
 Thomasii Duby p.
 MOLINIA coerulea *Moench. p.*
 ORYZA sativa *L. a.*
 PANICUM brevifolium *L. a.*
 capillare L. a.
 colonum L. a.
 coloratum L. a.
 maximum Jacq. p.
 PHALARIS coerulea *Desf. p. **
 paradoxa L. a.
 PHLEUM alpinum *L. p.*
 Bellardi W. a.
 Boehmeri Wibel. p.
 Michellii All. p.
 POA alpina *L. omn. p.*
 compressa L.
 sudetica Haenk.
 POLYPOGON monspeliensis *Desf. a.*
 SCHISMUS marginatus *Beauv. a.*
 SECALE fragile *Bieb. a.*
 perenne Host. p.
 SESLERIA coerulea *Ard. p.*
 disticha Pers. p.
 SORGHUM cafferorum *Beauv. a.*
 halepense Pers. p.
 SPARTINA cynosuroides *W. p.*
 STIPA altaica *Trin. omn. p.*
 capillata L.
 splendens Trin.
 TRIPSACUM dactyloides *L. p.*
 TRITICUM pinnatum *Moench. p.*
 Spelta L. a.
 UNIOLA latifolia *Michx. p.*

URACHNE parviflora Trin. p.
virescens Trin. p.

VILFA virginica Beauv. p.
VULPIA geniculata Link. p.

ACOTYLEDONES

MARSILEACEAE

MARSILEA quadrifolia L. p.

FILICES

ACROSTICUM alaicorne Sw. p.
ADIANTUM pubescens Schkr. p.
 tenerum Sw. p.
ANEIMIA fraxinifolia. p.
 hirta Sw. p.
ASPIDIUM coriaceum Sw. omn. p.
 Filix foemina Sw.
 Filix mas Sw.
 Halleri Willd.

ASPIDIUM patens Sw.
 violascens.
ASPLENIUM Trichomanes L. p.
BLECHNUM australe L. p.
 occidentale L. p.
CETERACH officinarum Willd. p.
LOMARIA Gilliesii. p.
NOTHOLAENA Marantae Desv. p.
OSMUNDA regalis L. p.
POLYPODIUM aureum L. omn. p.
 Phegopteris L.
 proliferum Kaulf.
 vulgare L.
PTERIS longifolia L. p.
SCOLOPENDRIUM officinarum Sw. p.

(1) Dianthus cyathophorus MORIS.

D. caespitosus; caulibus annotinis uni-paucifloris; floribus solitariis; squamis ad basim calicis 4-6, late rhombeo-orbicularibus, breviter apiculatis, calice subtriplo brevioribus, dispositis in involucrum campanulato-hemisphaericum tubo calicino duplo triplove amplius; foliis anguste linearibus; petalis obovato-cuneatis, dentatis, imberbibus.

Species a caeteris ejusdem generis involucri calicis basim cingentis amplitudine et forma praesertim distinguenda. Perenn. Fl. junio. Petala alba.

In montanis Sardiniae orientalis, circa Dorgali, inter fissuras rupium calcarearum, legit oculatissimus DOMINICUS LISA.

J. H. MORIS Botanices Professor
Horti Praefect.

Prof. J. DELPONTE Horto Adst.

